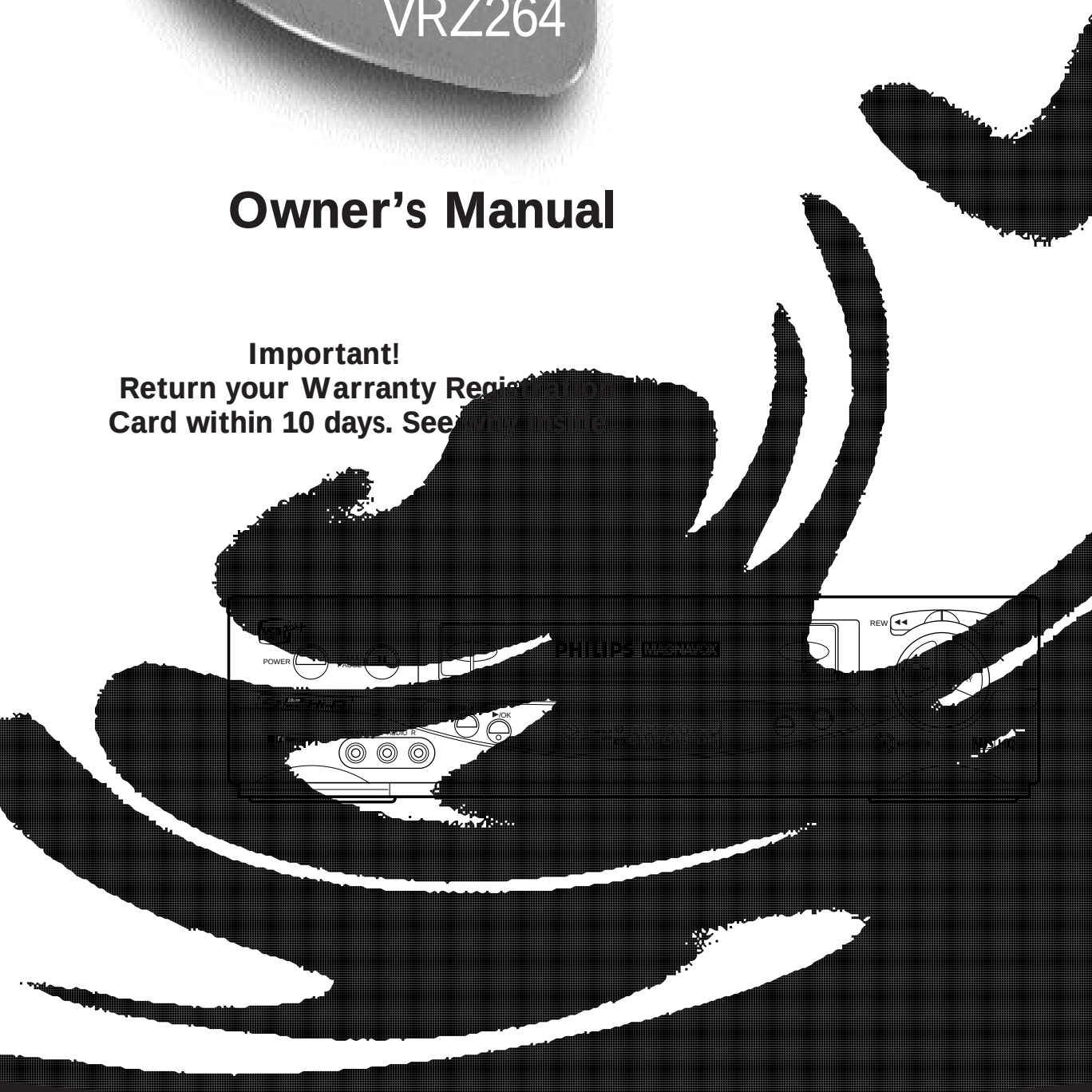
Video Cassette Recorder

VRZ244
VRZ264

Owner's Manual

Important!
Return your Warranty Registration
Card within 10 days. See warranty



PHILIPS MAGNAVOX

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

PHILIPS MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these

safety*symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

Welcome to your VCR owner's manual.

This manual describes the VRZ244 and the VRZ264. The VRZ244 is a monaural (single sound source) system, while the VRZ264 is a stereo system. Otherwise, the two models are exactly the same. In this manual, the VRZ264 is illustrated. (The VRZ244 has single AUDIO IN/OUT Jacks. Otherwise, the VRZ244 looks exactly like the VRZ264.)

This manual has six sections: Setting Up Your VCR; Description of Controls; Basic Operations; Recording; Playing; and Information You May Need. The instructions explain all of the VCR's features, which are listed below.

Features

- Automatic Channel Setup
- Automatic Clock Setting
- Automatic Head Cleaner
- Daylight-Saving Time
- Hi-Fi Stereo Tape Playback (VRZ264 only)
- Incredible Picture
- Index Search
- Multi-Channel Television Sound (MTS) System (VRZ264 only)
- 19 Micron Head
- On-Screen Menus in English, Spanish, or French
- Quick Programming
- Remote Control with Capability to Operate TV, Cable Box, and Direct Broadcast System (DBS)
- Repeat Play
- Skip Search
- VCR Plus+ Programming System
- Video Stabilizer

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

FCC Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

This VCR, equipped with a High Quality (HQ) System, is compatible with existing Video Home System (VHS) equipment. This VCR also is equipped with S-VHS Quasi Playback (SQPB), allowing you to play S-VHS recordings with regular VHS resolution. However, you may not record on S-VHS tapes with this VCR. This product has a 19 micron head which provides a better picture when you view tapes recorded in slow speed (SLP).

Philips Consumer Electronics Company recommends that you use only video cassette tapes that have been tested and inspected for use in two, four, six, and eight hour VCRs, and which are labelled with the VHS mark. The use of tapes that have not been inspected for use in two, four, six, and eight hour VCRs may result in poor picture quality and excessive deposits on the video heads, which may not be covered by the warranty if damage occurs.

Note to the Cable TV System Installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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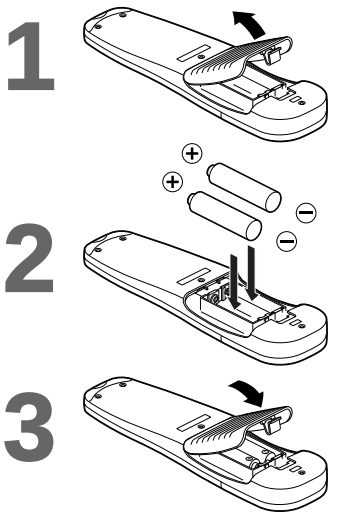
Removing the Plastic Cover from the Front Panel

A thin, plastic cover may protect the front panel of your VCR. Before using the VCR, lift a corner of the plastic, then peel it off.

Putting Batteries in the Remote Control



1

To open the battery compartment, push in the tab, then pull up the lid.

2

Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated.

3

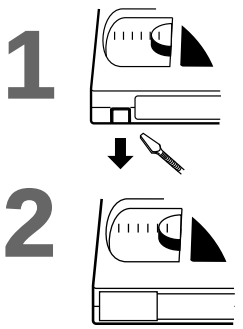
Close the battery compartment lid.

Using the Remote Control

- Do not put objects between the remote control and the VCR.
- Press the VCR button, then point the remote control at the VCR's remote sensor, before pressing other VCR operation buttons.
- Press the TV button, then point the remote control at the TV, before pressing other TV operation buttons.
- Press the CBL/DBS button, then point the remote control at the Cable Box/DBS, before pressing other Cable Box/DBS operation buttons.

Erase Protection

Video cassettes have record tabs to ensure that recordings are not erased accidentally.



1

To prevent accidental erasure, break off the tab with a screwdriver.

2

To record again, cover the hole with cellophane tape.

VCR Maintenance

- Remove any light adhesive stick-on notes from the video cassette before putting the cassette in the VCR. Removable labels can jam the VCR.
- Periodic maintenance is required to maintain your VCR's performance. Your VCR has an automatic head cleaner, but the video heads eventually will require cleaning or replacement. Cleaning or replacement of the video heads should be performed only by an authorized service center.

Helpful Hints

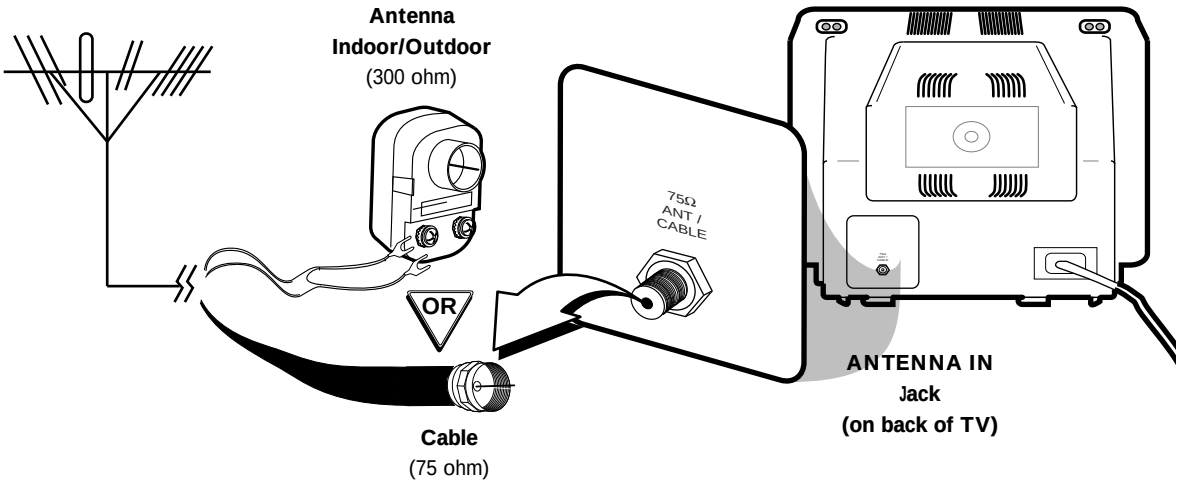
- *The remote control and its batteries are supplied.*
- *Do not mix alkaline and manganese batteries.*
- *Do not mix old and new batteries.*

6 Hookups Without a Cable Box

The basic VCR/TV connection – antenna/cable to VCR to TV – is shown below. If you have a Cable Box or a Direct Broadcast System, please refer to pages 8 - 9. After you hook up the VCR, please go to page 10 to turn on the VCR. (The VRZ264 is illustrated here. The VRZ244 has single AUDIO IN/OUT Jacks.)

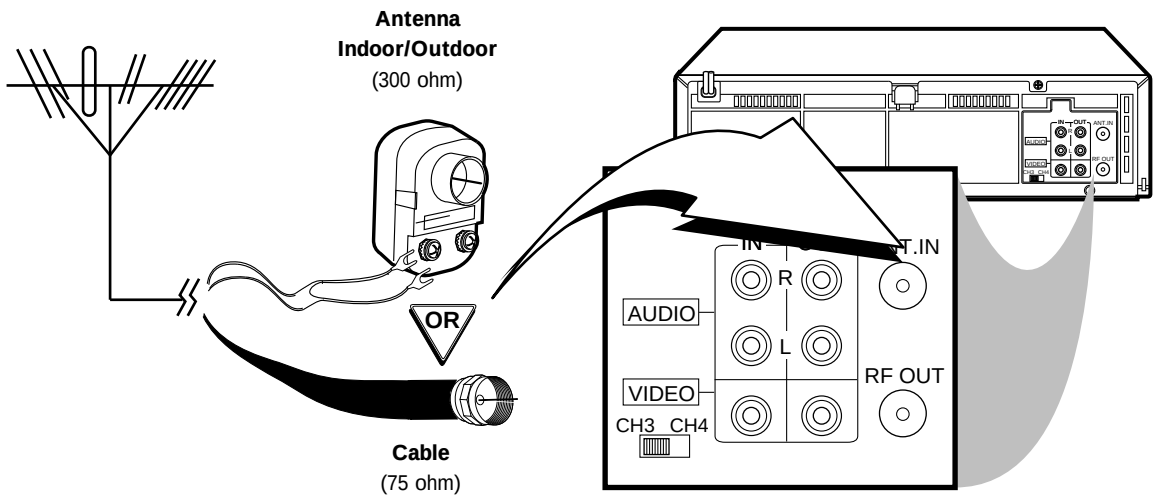
1

Disconnect the antenna or cable from your TV.



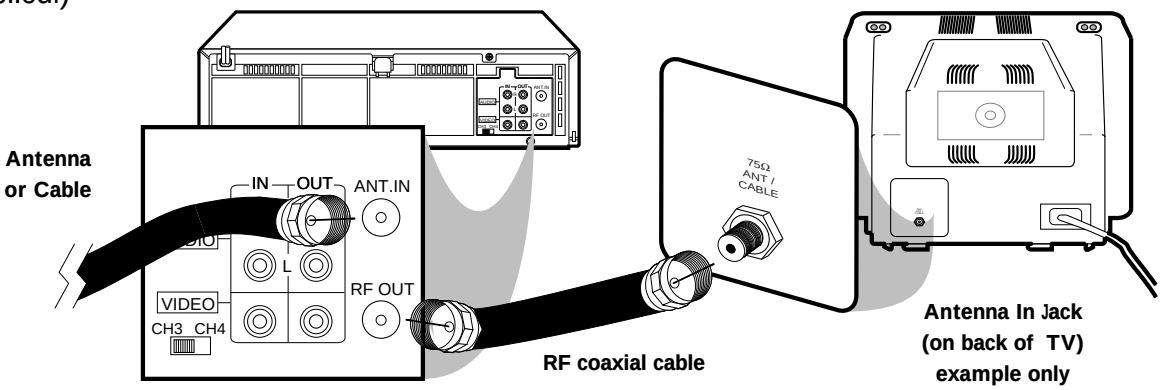
2

Connect the antenna or cable to the ANT(enna) IN Jack on the back of the VCR.



3

Connect the RF coaxial cable (supplied) to the RF OUT Jack on the back of the VCR and to the ANTENNA IN Jack on the TV. (You may use either a snap-on type or screw-on type of coaxial cable, whichever you prefer. A snap-on type is supplied.)

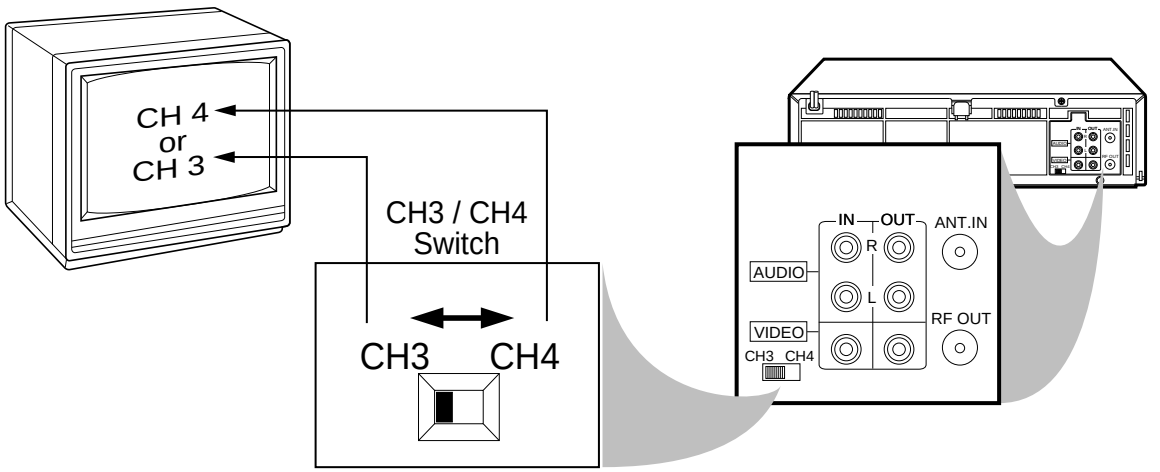


4

Plug in the TV and the VCR.

5

Set the CH3/CH4 switch on the back of the VCR to CH3 or CH4, whichever channel is not used or least used in your area. To operate your VCR with your TV, **set the TV to the same channel.** For example, when playing a tape, if the CH3/CH4 switch is set to CH3, the TV should be on channel 3.



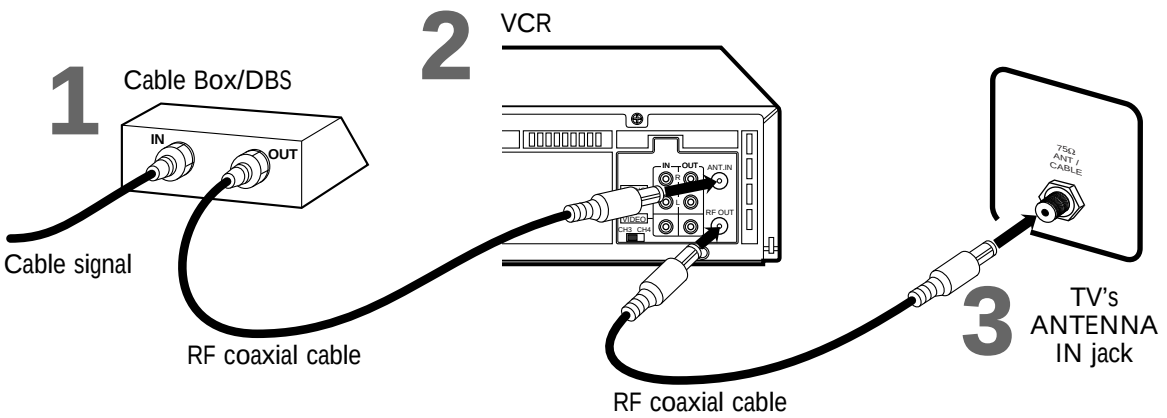
6

You are ready to turn on the VCR. Please go to page 10 before turning on the VCR.

8 Hookups With a Cable Box/Direct Broadcast System

There are two ways to connect your Cable Box/DBS to the VCR. With this connection:

- You may view any channel.
- You must select channels at the Cable Box/DBS. Channels cannot be changed at the VCR.
- You may not view a channel other than the one you are recording.
- You may not set up channels at the VCR.
- You can only program a timer recording for one channel at a time. Set the TV and the VCR to the Cable Box/DBS output channel (channel 03 or 04), and set your Cable Box/DBS to the channel you want to record. When you enter the channel you want to record in a timer recording, select channel 03 or 04 (the Cable Box/DBS output channel). (This is step 3 on page 36.) Leave the Cable Box/DBS on for a timer recording. (The VRZ264 is illustrated here. The VRZ244 has single AUDIO IN/OUT Jacks.)



Connections

1

Connect a Cable signal to the IN jack on the Cable Box/DBS.

2

Use an RF coaxial cable (supplied) to connect the OUT jack on the Cable Box/DBS to the ANT(enna) IN jack on the VCR.

3

Use a second RF coaxial cable to connect the RF OUT jack on the VCR to the TV's ANTENNA IN jack.

Recording/Viewing Any Channel

1

With the VCR on and in VCR position (the VCR light will appear on the display panel), use the CH(annel) ▲/▼ buttons to set the VCR to the Cable Box/DBS output channel (channel 03 or 04).

2

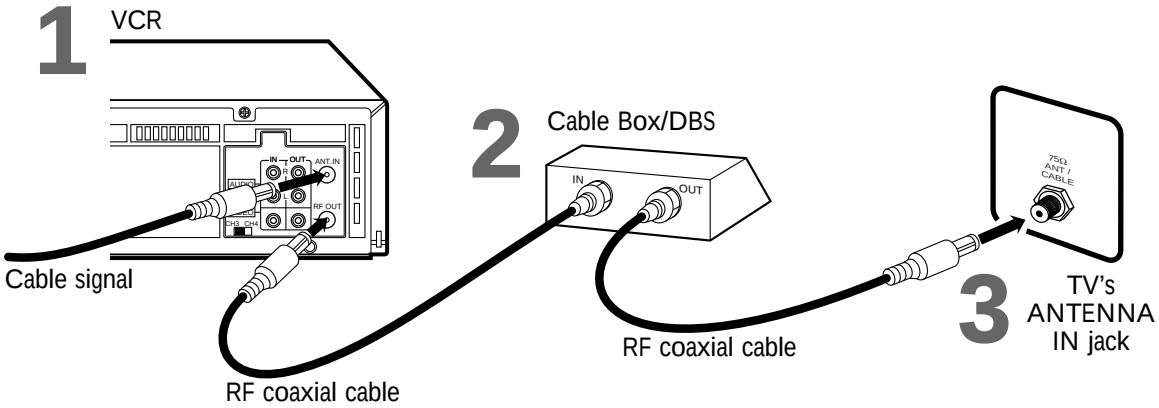
Set the TV to the same channel to which you set the VCR.

3

Select the channel you want to view/record at the Cable Box/DBS.

With this connection:

- You may watch one channel while recording another.
- You may not record scrambled channels.



Connections

1

Connect a Cable signal to the VCR's ANT(enna) IN jack.

2

Use an RF coaxial cable (supplied) to connect the RF OUT jack on the VCR to the IN jack on the Cable Box/DBS.

3

Use a second RF coaxial cable to connect the OUT jack on the Cable Box/DBS to the TV's ANTENNA IN jack.

Recording One Channel/Watching Another

1

Put the Cable Box/DBS on the same channel as the VCR's CH3/CH4 switch. Then, with the VCR in VCR position (the VCR light will appear on the display panel), use the CH(annel) ▲/▼ buttons to select the channel you want to record at the VCR. Start the recording.

2

Press the VCR/TV button once to put the VCR in TV position. (The VCR light will disappear.)

3

Set the TV to the Cable Box/DBS output channel (03 or 04).

4

Select the channel you want to watch at the Cable Box/DBS.

Helpful Hint

- *When you play a tape, make sure the Cable Box/DBS is set to the same channel as the CH3/CH4 switch on the VCR. Set the TV to the Cable Box/DBS output channel (03 or 04).*

10 Turning on Your VCR

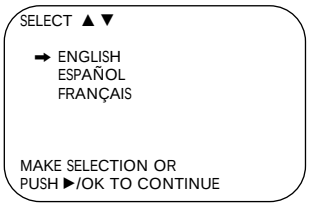
Before turning on your VCR, make sure there are batteries in the remote control and the VCR, TV, and Cable Box/DBS (if applicable) are connected.

1

Press the VCR button, then press the POWER button.

2

Turn on the TV. Set it to channel 3 or 4, whichever the CH3/CH4 switch on the back of the VCR is set to. The menu shown below will appear.

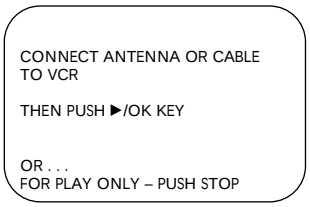


3

Press the PLAY ▲ or STOP ▼ button to select the on-screen display language.

4

Press the ►/OK button. The menu shown below will appear.



5

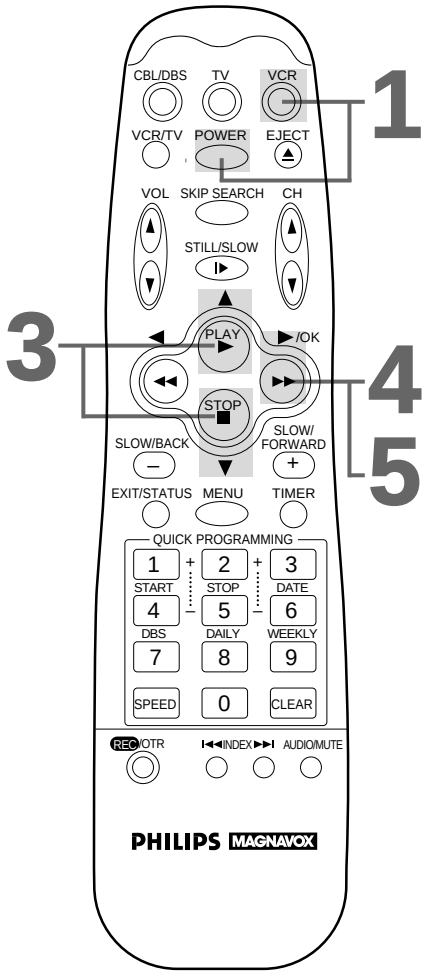
Press the ►/OK button to begin automatic channel setup. AUTO CH. SET PROCEEDING PLEASE WAIT will appear on-screen. The VCR will memorize all of the channels you receive, so when you scan through channels using the CH(annel) ▲/▼ buttons, you'll only scan through channels that you receive.

6

When channels are set up, AUTO CH. SET COMPLETED will appear on-screen briefly.

2 Turn on the TV.

6 Wait for the VCR to set up channels.



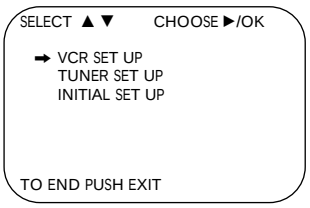
Helpful Hints

- *Auto or – – : – – may appear on the display panel until the clock is set. After you connect the antenna/cable signal to the VCR and connect the VCR to a power source, the clock may set itself automatically. The current time may appear on the VCR display panel.*
- *If you do not want to set up channels now, press the STOP ▼ button at step 5. TUNER NOT SET will appear on-screen briefly.*
- *You may not set up channels at step 5 if you are using a Cable Box/DBS.*

Although your VCR may automatically memorize the channels you receive when you turn it on for the first time, this function lets you set up channels again. Make each entry within one minute of the previous entry.

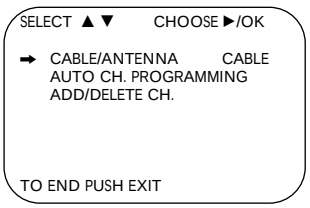
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select TUNER SET UP, then press the ►/OK button.



3

Press the ►/OK button repeatedly so that ANT (if you have an antenna) or CABLE (if you have a cable connection) appears beside CABLE/ANTENNA.

4

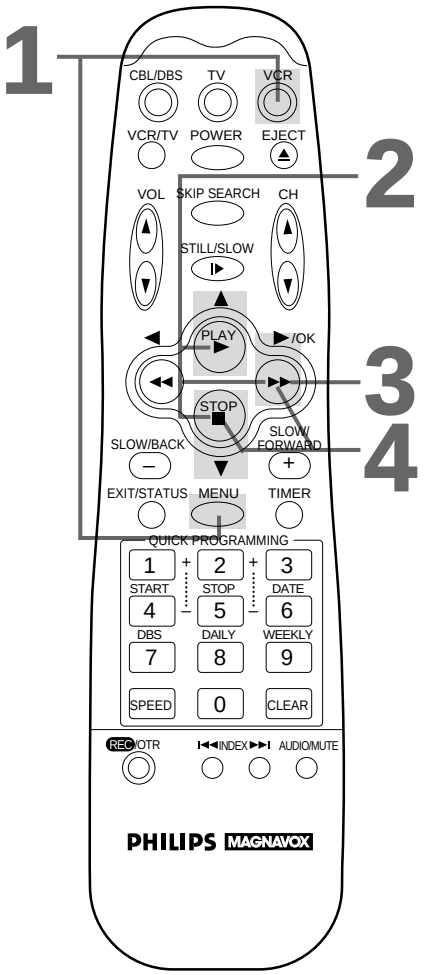
Press the STOP ▼ button to select AUTO CH. PROGRAMMING, then press the ►/OK button. AUTO CH. SET PROCEEDING PLEASE WAIT and a scale that shows the progress of channel setup will appear on-screen. The VCR will memorize all the channels you receive.

5

Wait for a few minutes while the VCR sets up channels. When programming is complete, AUTO CH. SET COMPLETED will appear on-screen. Then, the programming of the lowest channel number placed in the VCR's memory will appear on-screen. Now when you press the CH(annel) ▲/▼ buttons, you will scan only through channels you receive.

5

Wait for the VCR to set up channels.



Helpful Hints

- *If the channel you select has no broadcast, the screen will be solid blue.*
- *The two Line Input modes will always be stored in the VCR's memory at channel 00. To select A/V IN FRONT or A/V IN REAR, press 0,0, then press the CH(annel) ▲/▼ buttons so that A/V IN FRONT or A/V IN REAR appears on-screen briefly. To exit Line Input mode, use the CH(annel) ▲/▼ buttons to select a channel other than 00.*

12 Automatic Channel Setup (cont'd)

Adding/Deleting Channels

1

Press the VCR button, then press the MENU button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ VCR SET UP
  TUNER SET UP
  INITIAL SET UP


TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select TUNER SET UP, then press the ►/OK button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ CABLE/ANTENNA        CABLE
  AUTO CH. PROGRAMMING
  ADD/DELETE CH.


TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select ADD/DELETE CH., then press the ►/OK button.

```
SELECT ▲▼

  124                DELETED
  125                DELETED
   01    ----->      DELETED
   02                ADDED
   03                ADDED

TO ADD/DELETE  PUSH ►/OK
TO END PUSH EXIT
```

4

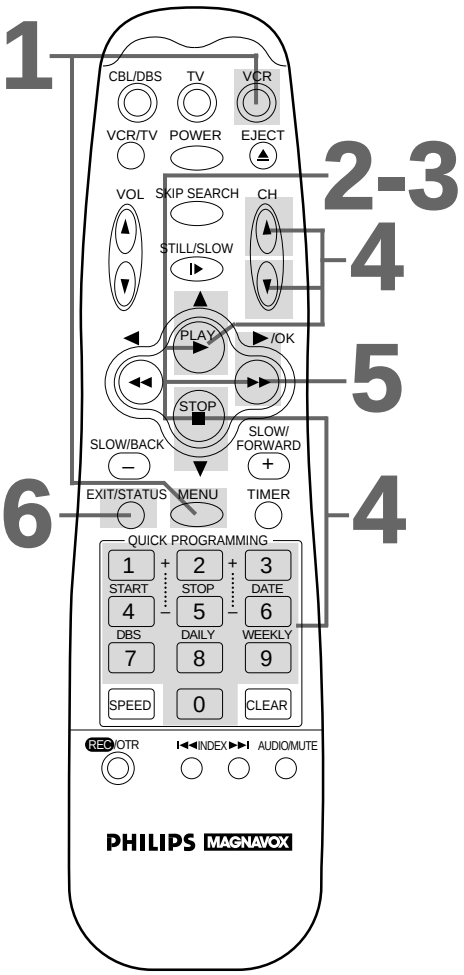
Use the Number buttons, the CH (annel) ▲/▼ buttons, or the PLAY ▲ or STOP ▼ buttons to select the channel you want to add or delete. An arrow will appear beside the selected channel.

5

Press the ►/OK button so that DELETED or ADDED appears beside the channel number.

6

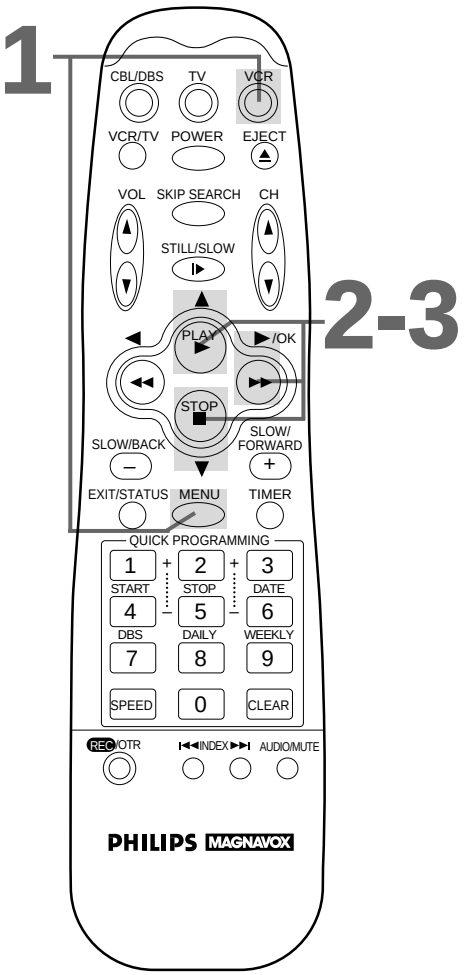
Press the EXIT/STATUS button. Programming of the last channel you added or deleted will appear on-screen.



There are four ways to set the VCR's clock: Manually, with Time Zone Selection, with Manual PBS Channel Selection, or with Automatic PBS Channel Selection. Cable Box/DBS users must set the clock manually. Before you set the clock, make sure:

- The VCR power is on.
- The VCR light appears on the display panel. If it does not, press the VCR/TV button once.
- Channels are set up.
- You make each entry within one minute of the previous entry.

To set the clock manually, follow the steps on this page. To use Time Zone Selection, go to page 15. To use Manual PBS Channel selection, go to page 16. To use Automatic PBS Channel Selection, go to page 17.



Manual Clock Setting

1

Press the VCR button, then press the MENU button.

```
SELECT ▲▼      CHOOSE ▶/OK

➡ VCR SET UP
  TUNER SET UP
  INITIAL SET UP



TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ▶/OK button.

```
SELECT ▲▼      CHOOSE ▶/OK

➡ CLOCK
  LANGUAGE          ENGLISH
  VCR PLUS+ CH.



TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the ▶/OK button.

```
   TIME       – – : – – AM
   DATE       01/01/98

 AUTO CLOCK ON
 PBS CH.      AUTO
 D.S.T.       AUTO
 TIME ZONE    AUTO
TO SET PUSH ▲▼ THEN ▶/OK
TO END PUSH EXIT
```

Helpful Hints

- *To program the VCR so its clock will automatically move forward one hour in April and turn back one hour in October, see page 18.*
- *To make corrections, follow steps 1 - 3, then press the ▶/OK button until the item you want to correct is flashing. Then press the PLAY ▲ or STOP ▼ button to enter the correct information. Press the EXIT/STATUS button.*

Instructions continue on page 14.

4

Press the PLAY ▲ or STOP ▼ button repeatedly to set the TIME. Every time you press the PLAY ▲ or STOP ▼ button, the time changes in one minute increments. If you press and hold the PLAY ▲ or STOP ▼ button, the time changes in 30 minute increments.

When the time is correct, press the ►/OK button.

```
TIME        10 : 45 AM
DATE        01/01/98

AUTO CLOCK  OFF

D.S.T.      ON

TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

5

Press the PLAY ▲ or STOP ▼ button repeatedly to set the DATE (month and day). Every time you press the PLAY ▲ or STOP ▼ button, the day changes in one day increments. If you press and hold the PLAY ▲ or STOP ▼ button, the day changes in 15 day increments.

When the month and day are correct, press the ►/OK button.

```
TIME        10 : 45 AM
DATE        07/31/98

AUTO CLOCK  OFF

D.S.T.      ON

TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

6

Press the PLAY ▲ or STOP ▼ button repeatedly to set the YEAR. When the year is correct, press the ►/OK button. The day of the week will appear automatically.

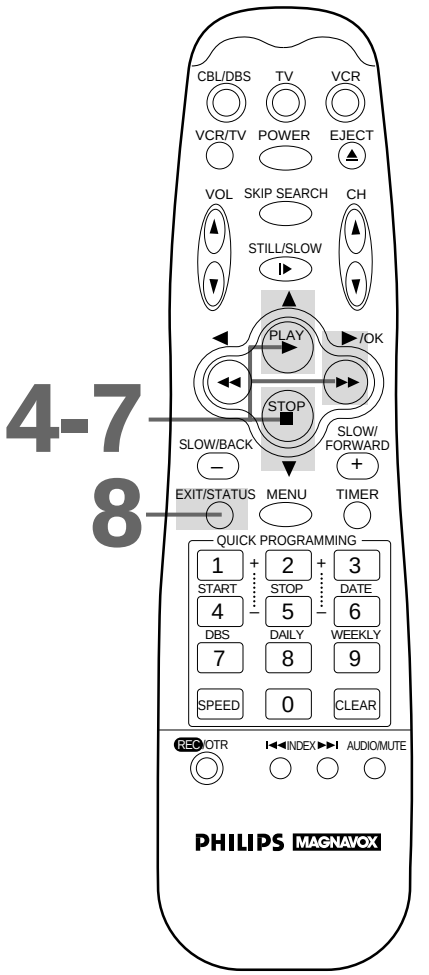
```
TIME        10 : 45 AM
DATE        07/31/98
            FRIDAY
AUTO CLOCK  OFF

D.S.T.      ON

TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

7

Press the ►/OK button once again to skip the "AUTO CLOCK" selection and go to "D.S.T." (Daylight Saving Time) selection. Press the PLAY ▲ or STOP ▼ button to set D.S.T. to ON, OFF or AUTO. If AUTO CLOCK is set to OFF, you may only set D.S.T. to ON or OFF. For more information, please see page 18.

8

Press the EXIT/STATUS button.



Time Zone Selection

1

Press the VCR button, then press the MENU button.

2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ CLOCK
  LANGUAGE          ENGLISH
  VCR PLUS+ CH.

TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the ►/OK button.
(If AUTO CLOCK is set to OFF, TIME ZONE will not be available in the menu. If this happens, press the ►/OK button to select AUTO CLOCK, then press the PLAY ▲ or STOP ▼ button to set AUTO CLOCK to ON.)

```
   TIME        – – : – – AM
   DATE        01/01/98

 AUTO CLOCK ON
 PBS CH.          AUTO
 D.S.T.           AUTO
 TIME ZONE        AUTO
TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

4

Press the ►/OK button repeatedly to select TIME ZONE.

5

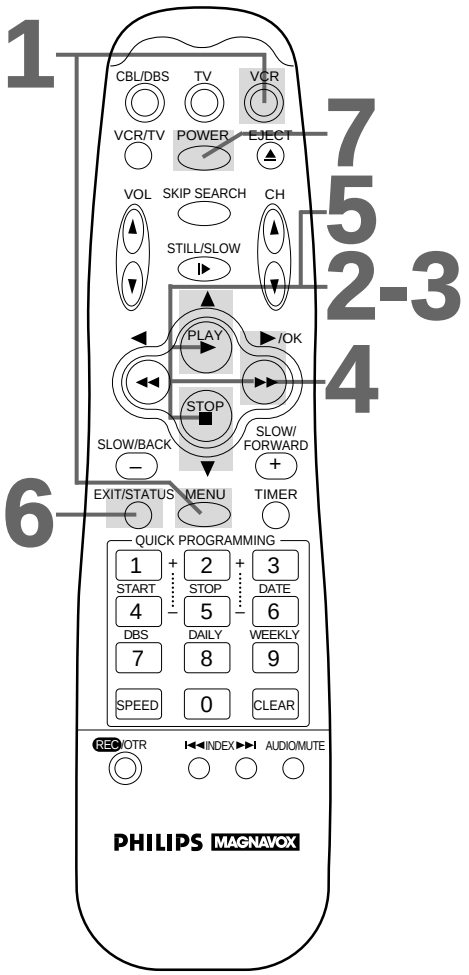
Press the PLAY ▲ or STOP ▼ button repeatedly to select your Time Zone, then press the ►/OK button.

6

Press the EXIT/STATUS button.

7

An on-screen message will ask you to turn off the VCR, and – – : – – AM will appear on the display panel. Press the POWER button to turn off the VCR.
Auto will flash in the display panel until the clock is set. Leave the VCR turned off until the time appears on the display panel.
If – – : – – appears on the display panel after you turn off the VCR, the VCR could not find the time. Set the clock following the steps on pages 13 - 14.



Helpful Hints

- *When the power plug is connected to an AC outlet, the correct time will appear on the display panel of the VCR (when the power is off).*
- *If you live near the boundary of an adjacent time zone, your PBS channel may come from a different time zone. Select the time zone of your PBS channel at step 5.*
- *Press the EXIT/STATUS button repeatedly to make the time appear on the display panel when the VCR power is on.*

Manual PBS Channel Selection

1

Press the VCR button, then press the MENU button.

2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.

3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the ►/OK button. (If AUTO CLOCK is set to OFF, PBS CH. will not be available in the menu. If this happens, press the ►/OK button to select AUTO CLOCK, then press the PLAY ▲ or STOP ▼ button to set AUTO CLOCK to ON.)

```
TIME        – – : – – AM
DATE        01/01/98

AUTO CLOCK ON
PBS CH.          AUTO
D.S.T.           AUTO
TIME ZONE        AUTO
TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

4

Press the ►/OK button to select PBS CH.

5

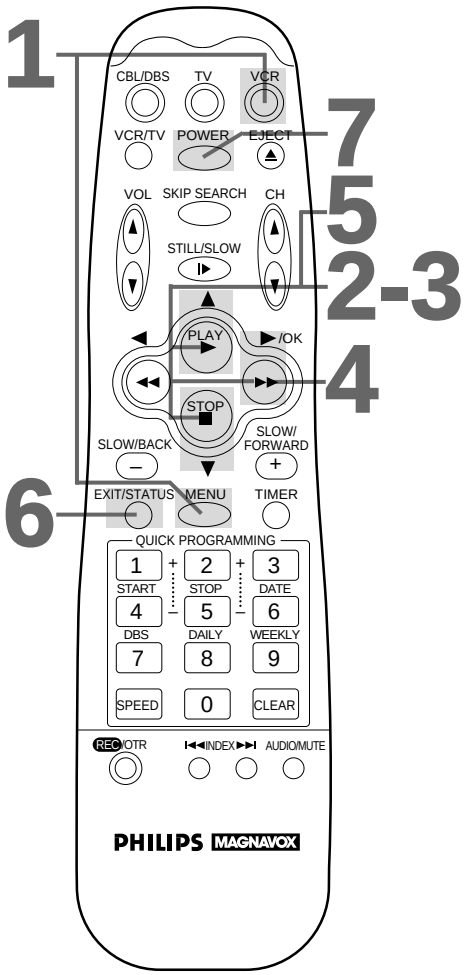
Press the PLAY ▲ or STOP ▼ button repeatedly to select the station number of your PBS channel, then press the ►/OK button.

6

Press the EXIT/STATUS button.

7

An on-screen message will ask you to turn off the VCR, and – – : – – AM will appear on the display panel. Press the POWER button to turn off the VCR.
Auto will flash in the display panel until the clock is set. Leave the VCR power off until the clock is set.
If – – : – – appears on the display panel after you turn off the VCR, the VCR could not find the time. Repeat steps 1 - 6 above, entering a different PBS channel at step 5. Or, set the clock following the steps on page 17.



Helpful Hint

- *The time will be updated at the top of each hour (except at 11 p.m., midnight, 1 a.m., and 2 a.m.).*

Automatic PBS Channel Selection

1

Press the VCR button, then press the MENU button.

2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.

3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the ►/OK button. (If AUTO CLOCK is set to OFF, PBS CH. will not be available in the menu. If this happens, press the ►/OK button to select AUTO CLOCK, then press the PLAY ▲ or STOP ▼ button to set AUTO CLOCK to ON.)

```
TIME        – – : – – AM
DATE        01/01/98

AUTO CLOCK ON
PBS CH.     AUTO
D.S.T.      AUTO
TIME ZONE   AUTO
TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

4

Press the ►/OK button repeatedly to select PBS CH.

5

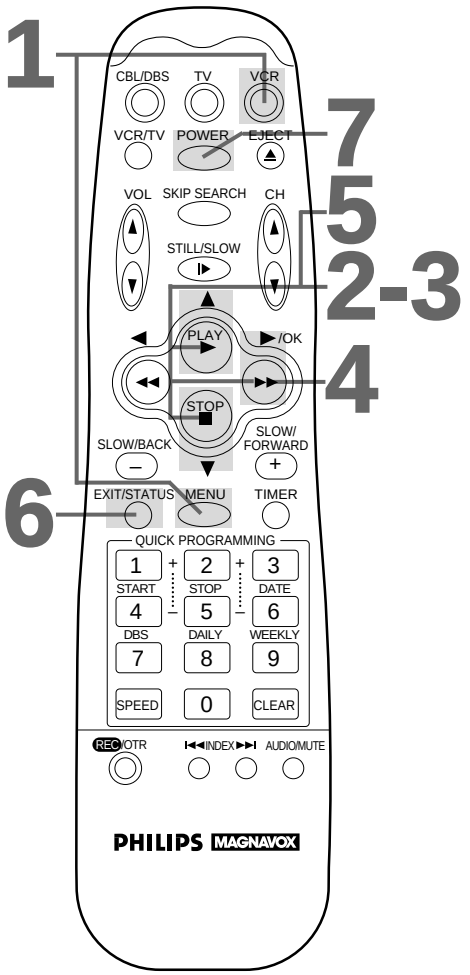
Press the PLAY ▲ or STOP ▼ button repeatedly so that AUTO flashes beside PBS CH. Then press the ►/OK button.

6

Press the EXIT/STATUS button.

7

An on-screen message will ask you to turn off the VCR, and – – : – – AM will appear on the display panel. Press the POWER button to turn off the VCR.
Auto will flash in the display panel until the clock is set. Leave the VCR power off until the clock is set. If – – : – – appears on the display panel after you turn off the VCR, the VCR could not find the time. You may need to tell the VCR the PBS channel from which to take the time. Follow the steps on page 16.



Helpful Hints

- *The time will be updated at the top of each hour (except at 11 p.m., midnight, 1 a.m., and 2 a.m.).*
- *To display the time on-screen, press the EXIT/STATUS button. (ON SCREEN MODE can not be set to OFF.) Details are on page 25.*

18 Daylight-Saving Time

Follow the steps below to program the VCR so its clock will automatically move forward one hour in April and turn back one hour in October.

1

Press the VCR button, then press the MENU button.

2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ CLOCK
  LANGUAGE          ENGLISH
  VCR PLUS+ CH.

TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select CLOCK, then press the ►/OK button. (If AUTO CLOCK is set to OFF, PBS CH. and TIME ZONE will not appear in the menu.)

```
   TIME        10:45 AM
   DATE        01/01/98
               THURSDAY
 AUTO CLOCK ON
 PBS CH.       AUTO
 D.S.T.        AUTO
 TIME ZONE     AUTO
TO SET PUSH ▲▼ THEN ►/OK
TO END PUSH EXIT
```

4

Press the ►/OK button repeatedly to select D.S.T.

5

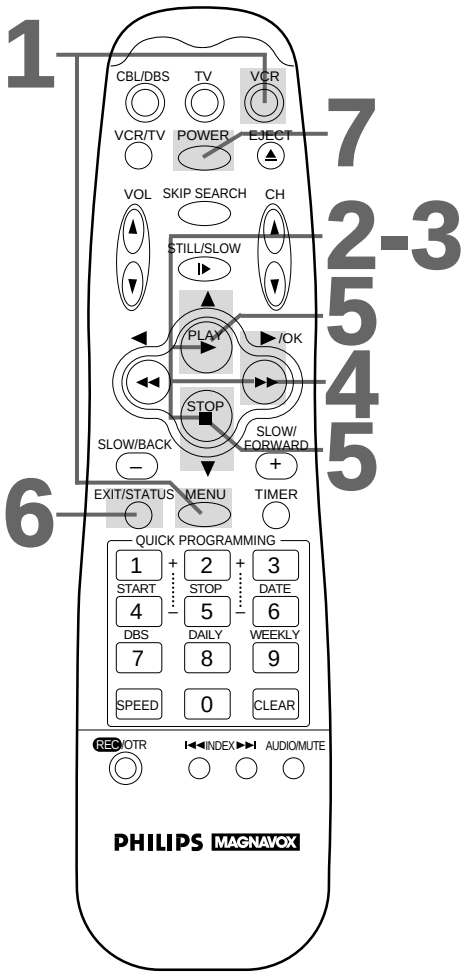
Press the PLAY ▲ or STOP ▼ button so that ON, OFF, or AUTO appears beside D.S.T.
Select ON to make the clock adjust itself according to the VCR's calendar. Select OFF to turn off the feature. Select AUTO to make the clock adjust itself according to the signal it receives from the PBS channel. If AUTO CLOCK is set to OFF, you may only set D.S.T. to ON or OFF.

6

Press the EXIT/STATUS button.

7

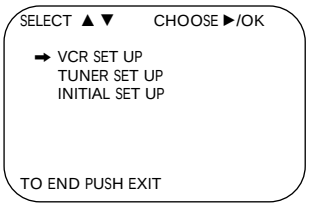
An on-screen message will ask you to turn off the VCR. Press the POWER button to turn off the VCR. Auto will flash in the display panel until the clock is set. Leave the VCR power off until the clock is set. If – – : – – appears on the display panel after you turn off the VCR, the VCR could not find the time. You may need to tell the VCR the PBS channel from which to take the time. Follow the steps on page 16.



Follow the steps below to change the language of the on-screen displays.

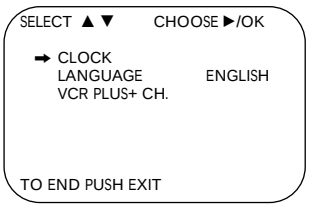
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.



3

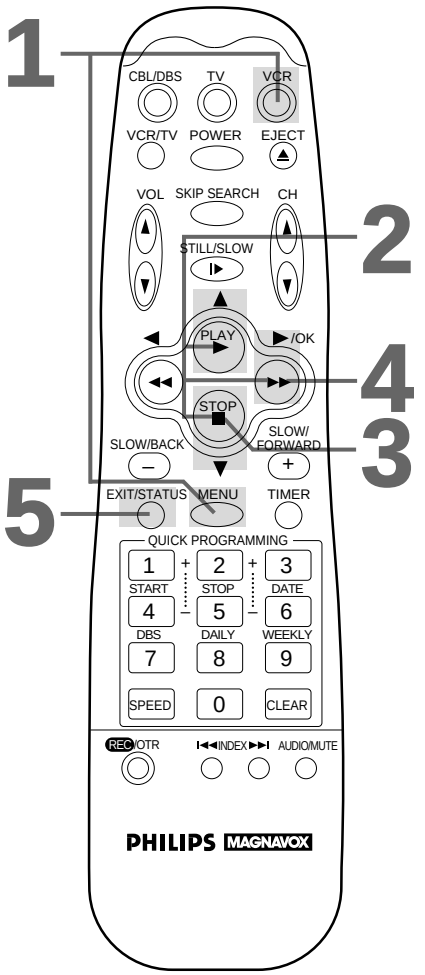
Press the STOP ▼ button to select LANGUAGE.

4

Press the ►/OK button repeatedly so that the language you want to select appears on-screen.

5

Press the EXIT/STATUS button.



Helpful Hint

- *If you accidentally select Spanish or French on-screen displays and need English on-screen displays, follow these steps. 1) Press the VCR button, then press the MENU button. 2) Press the PLAY ▲ or STOP ▼ button to select SISTEMA INICIAL or PROGRAMM. INITIALE, then press the ►/OK button. 3) Press the PLAY ▲ or STOP ▼ button to select LENGUAJE or LANGUE. 4) Press the ►/OK button repeatedly so that the English menu appears. 5) Press the EXIT/STATUS button.*

20 Remote Control Buttons

TV Button
Press this button before pressing other TV operation buttons.

CBL/DBS Button
Press this button before pressing Cable Box/DBS operation buttons.

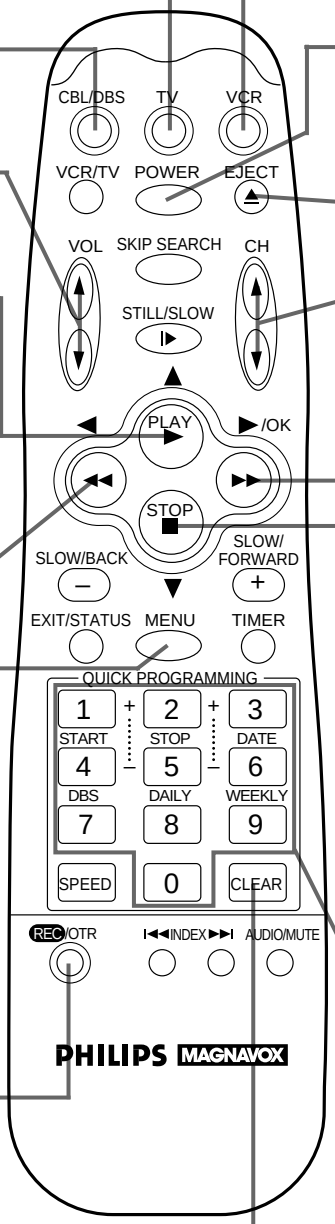
VOL(ume) ▲/▼ Buttons
Press to increase or decrease the TV's volume.

PLAY ▲ Button
In VCR mode, press to play a tape. Also, press to release Slow, Still, or Search mode and to return to normal playback. *Details are on page 48.* In TV mode, press to move up or forward one row or selection in the TV menu.

Rewind ◄ Button
When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on-screen. *Details are on page 48.* Press to adjust (decrease) the picture controls or to change a menu setting at the TV menu.

MENU Button
Press to access the main VCR menu. Press again to remove the menu. Or, press the TV button, then the MENU button, to access the TV menu.

REC(ord)/OTR Button
Press once to start a recording. *Details are on page 29.* Or, press repeatedly to start a One-Touch Recording. *Details are on page 30.*



VCR Button
Press this button before pressing VCR operation buttons.

POWER Button
After pressing the CBL/DBS, VCR, or TV button, press to turn on or off the Cable Box/DBS, VCR, or TV.

EJECT Button
Press to eject the tape.

CH(annel) ▲/▼ Buttons
After pressing the CBL/DBS, TV, or VCR button, press to scan through the channels of the Cable Box/DBS, TV, or VCR.

Fast Forward ►/OK Button
When tape playback is stopped, press to advance the tape at high speed. During tape playback, press to advance the tape while the picture stays on-screen. *Details are on page 48.* Or, press to adjust (increase) the picture controls or to change a menu setting at the TV menu.

STOP ▼ Button
Press to stop the tape. Or press to move down or backward one row or selection in the TV menu.

Number Buttons
After pressing the CBL/DBS, TV, or VCR button, press to select a channel at the Cable Box/DBS, TV, or VCR. To select channels 1-9, press 0, then the channel you want. For example, to select channel 7, press 0, 7.

CLEAR Button
Press to reset the real-time counter to zero.

Helpful Hint

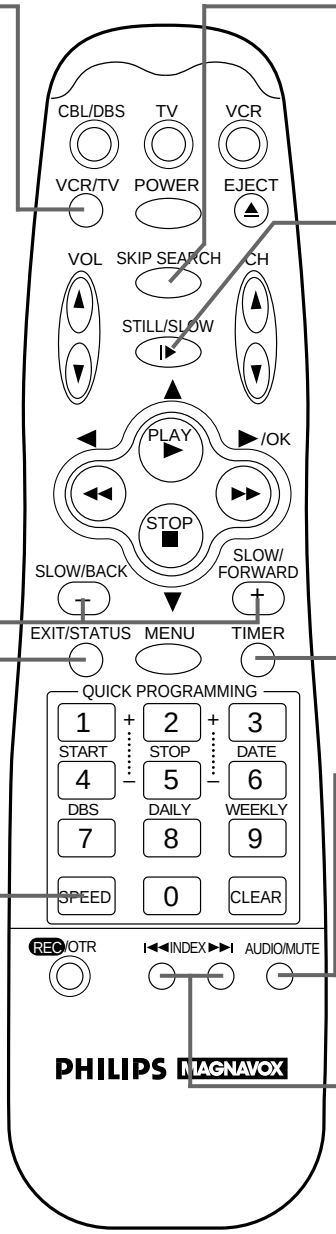
- *The buttons with a shaded description will light for 10 seconds when pressed.*

VCR/TV Button
Press to select the signal that your TV receives.
• VCR Position
Use to watch a tape, to watch a program while recording it, or to watch a TV broadcast using the CH(annel) ▲/▼ or Number buttons to change channels at the VCR. The VCR light will appear on the display panel when the VCR is in VCR position.
• TV Position
Use to watch TV (selecting channels at the TV) or to watch one program while recording another. *Details are on page 31.* The VCR light will not appear when the VCR is in TV position.

SLOW/BACK(–) and SLOW/FORWARD (+) Buttons
During slow motion tape playback, press to adjust the playback speed. *Details are on page 48.*

EXIT/STATUS Button
Press to exit on-screen menus. Press to bring up the status display for five seconds. *Details are on page 25.* When tape playback is stopped, press repeatedly to see the real-time counter, the current channel, or the current time on the display panel. During tape playback, press repeatedly to see the current time or the real-time counter on the display panel. Or, press the TV button, then press the EXIT/STATUS button, to access the TV on-screen displays or to exit the TV menu.

SPEED Button
Press to select the recording speed (SP or SLP). *Details are on pages 37 and 50.*



SKIP SEARCH Button
Press during tape playback to fast forward 30 seconds of a tape. This feature will only work with tape segments recorded in SP or SLP speed.

STILL/SLOW Button
While recording, press to temporarily stop the recording. Press a second time to resume normal recording. *Details are on page 29.*
During tape playback, press once to freeze the picture. Press repeatedly to advance the Still picture frame by frame. *Details are on page 48.*
During tape playback, press and hold for more than three seconds to play the tape in slow motion. *Details are on page 48.*

TIMER Button
Press to access the timer recording menu. *Details are on pages 34 - 39.*

AUDIO/MUTE Button
Press the TV button, then press the AUDIO/MUTE button to eliminate the TV's sound. Press again to restore the sound. Or, press the VCR button, then press the AUDIO/MUTE button, to select MONO or HIFI (VRZ264 only). *Details are on pages 43 - 45.*

INDEX Buttons
When tape playback is stopped, press to search for index codes recorded on the tape. *Details are on page 42.*

Helpful Hint

- *This remote control may or may not operate your TV or Cable Box/DBS. Or, it may only work some features of this equipment. See pages 26 - 27 for details.*

22 Display Panel

VCR Display Panel

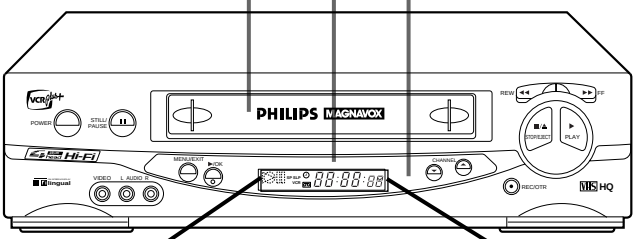
Information about VCR operations appears here. Different information appears at different times. The display is brighter when the VCR power is on. The display dims automatically when you turn off the VCR power.

Remote Sensor

Receives a signal from your remote control so you can operate your VCR from a distance. Press the VCR button on the remote control before pressing other VCR operation buttons.

Cassette Compartment

Insert a tape here.



TIMER Light

This light appears when a timer recording is programmed or is in progress. *Details are on pages 34 - 39.* This light blinks rapidly if the VCR is turned off to set a Timer Recording but a tape is not in the VCR.

Operation indicators

These indicators tell you the current operation of the VCR.
▷: Play, Forward and Reverse Searching
○: Record
○▯▯: Record Pause
▷▯▯: Still Picture

Tape Speed Lights

This light indicates the current tape speed. This VCR will play tapes recorded in LP speed, but LP will not appear on the display panel. This VCR will not record in LP speed. *Details on tape speeds are on pages 37 and 50.*

VCR Light

This light appears when the VCR is in VCR position.

Cassette-Inside Light

This light appears when a tape is in the VCR. It blinks when a tape is being ejected. This light blinks rapidly if the VCR is turned off to set a Timer Recording but there is not a tape in the VCR.

Clock/Counter/Channel Display

Each time you press the EXIT/STATUS button, information on the display panel will change. When tape playback is stopped, press the EXIT/STATUS button repeatedly to see: the current time (when the clock is set); the real-time counter; and the current channel number. During tape playback, press the EXIT/STATUS button repeatedly to see the real-time counter or the current time.

Line Input Mode Light

When L appears here, the VCR is in Line Input mode. When L-F appears, you have selected A/V IN FRONT. Your audio and video cables should be connected to the AUDIO/VIDEO jacks on the front of the VCR if you are dubbing tapes. When L-1 appears here, you have selected A/V IN REAR. Your audio and video cables should be connected to the AUDIO/VIDEO jacks on the back of the VCR if you are dubbing tapes. To select A/V IN FRONT or A/V IN REAR, press 0,0, then press the CH(annel) ▲/▼ buttons so that A/V IN FRONT or A/V IN REAR appears on-screen briefly. To exit Line Input mode, press the Number buttons or the CH(annel) ▲/▼ buttons to select another channel.

FF (Fast Forward) Button

When tape playback is stopped, press to fast forward the tape at high speed. During tape playback, press to fast forward the tape while the picture stays on-screen. *Details are on page 48.*

PLAY Button

Press to play a tape. Also, press to release Slow, Still, or Search mode and return to normal playback. *Details are on page 48.*

REW(ind) Button

When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on-screen. *Details are on page 48.*

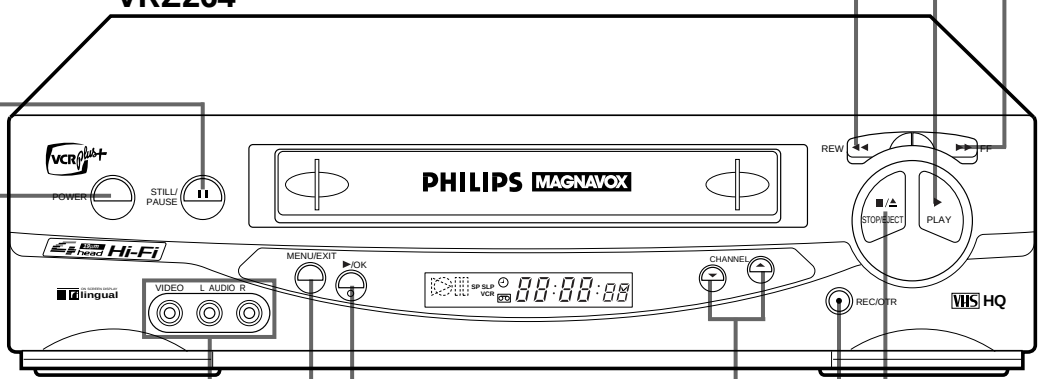
POWER Button

Press to turn the VCR power on and off.

STILL/PAUSE Button

During tape playback, press once to freeze the picture. Press repeatedly to advance the Still picture frame by frame. *Details are on page 48.* During recording, press to temporarily stop the recording. Press a second time to resume recording. *Details are on page 29.*

VRZ264



Front VIDEO/AUDIO In Jacks

Connect cables coming from the VIDEO and AUDIO OUT Jacks of another VCR or a camcorder here. *Details are on page 41. (The VRZ244 has one AUDIO In jack.)*

MENU/EXIT Button

Press to access the main VCR menu. Or, press to exit on-screen menus.

CHANNEL ▲/▼ Buttons

Press to scan through the VCR's channels. During tape playback, press to manually adjust the tracking. *Details are on page 49.*
Press to select an item in the VCR's on-screen menu.

REC(ord)/OTR Button

Press once to record. *Details are on page 29.* Press repeatedly to start a One-Touch Recording. *Details are on page 30.*

►/OK Button

Press to change the setting of an on-screen menu item.

STOP/EJECT Button

Press once to stop the tape. When tape playback is stopped, press to eject the tape.

24 Rear Panel

ANT(enna) IN Jack

Connect your antenna or cable here. *Details are on pages 6 - 9.*

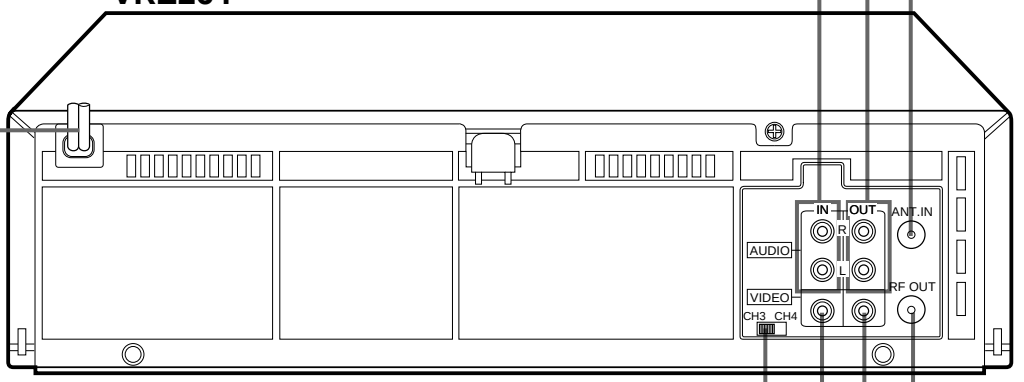
AUDIO OUT Jacks

Connect cables going to the AUDIO IN jacks of a camcorder, another VCR, or an audio source here. *Details are on pages 41 and 44.* The VRZ244 has a single AUDIO OUT Jack. The VRZ264 (pictured) has Right and Left AUDIO OUT Jacks.

AUDIO IN Jacks

Connect cables coming from the AUDIO OUT jacks of a camcorder, another VCR, or an audio source here. *Details are on page 41.* The VRZ244 has a single AUDIO IN Jack. The VRZ264 (pictured) has Right and Left AUDIO IN Jacks.

VRZ264



CH3/CH4 Switch

Set to channel 3 or 4 to use your TV with your VCR. Set your TV to the same channel. *Details are on pages 6 - 9.*

VIDEO IN Jack

Connect a cable coming from the VIDEO OUT jack of a camcorder or another VCR here. *Details are on page 41.*

VIDEO OUT Jack

Connect a cable going to the VIDEO IN jack of a camcorder or another VCR here. *Details are on pages 41 and 44.*

AC Power Cord

Connect to a wall outlet (120 V) to supply power to the VCR.

RF OUT Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV or to the IN Jack on your Cable Box/DBS (if applicable). *Details are on pages 6 - 9.*

An on-screen status display, which includes the current time, channel, and other information (see illustration of the status display at right), will appear when you press the EXIT/STATUS button or certain function buttons. The contents of the status display may vary.

ON SCREEN MODE ON:

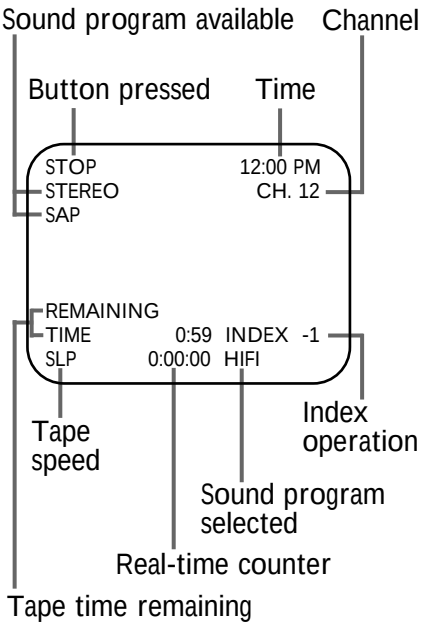
- Whenever you press the PLAY ▲ button or the STOP ▼ button to stop playback, some of the contents of the status display will appear for five seconds.

ON SCREEN MODE COUNTER:

- The real-time counter will appear on-screen at all times. Whenever you press the PLAY ▲ button or the STOP ▼ button to stop playback, some of the contents of the status display will appear for five seconds. After five seconds, only the counter will remain on the screen.

ON SCREEN MODE OFF:

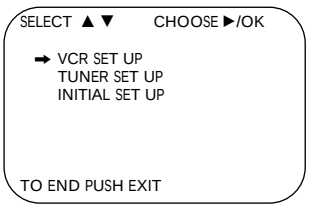
- No status display will appear when you press function buttons or the EXIT/STATUS button.



To select a status display mode, follow these steps.

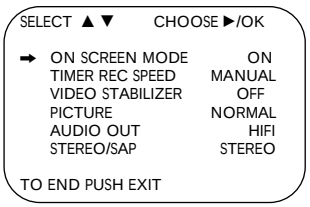
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ►/OK button.



3

Press the PLAY ▲ or STOP ▼ button to select ON SCREEN MODE, if necessary.

4

Press the ►/OK button repeatedly so that ON, COUNTER, or OFF appears beside ON SCREEN MODE.

5

Press the EXIT/STATUS button.

Helpful Hints

- *If ON SCREEN MODE is set to ON or COUNTER:*
  - *You may bring up the status display at any time by pressing the EXIT/STATUS button. (The exception is during Slow, Search, or Still mode.) The display will appear for about five seconds.*
  - *Channel numbers (when tuned) will appear for a few seconds.*
- *When tape playback is stopped, press the EXIT/STATUS button repeatedly to see the current time, real-time counter, or current channel number on the display panel. During tape playback, press the EXIT/STATUS button repeatedly to see the current time or real-time counter on the display panel. The channel will not appear.*
- *Depending on the type of tape used, the tape time remaining may not appear right away, or may not be correct. Also, "– – : – –" may appear, or the display may flash.*

26 Setting the Remote Control to Operate a TV

Your VCR remote control may operate your TV. Follow these steps to set the remote control code.

1

Point the remote control at your TV. Press the TV button, then press the POWER button. If your TV turns on or off, try the CH(annel) ▲/▼ buttons. If your remote control operates the TV, you're finished. If your TV doesn't turn on or off, or if the CH(annel) ▲/▼ buttons don't work, go to step 2.

2

Find the brand of your TV on the list below, and remember the two-digit number beside it.

TV CODES	
EMERSON 14	RCA 10
GOLDSTAR 04	SAMSUNG 18
HITACHI 12	SANYO 11
JVC 05	SHARP 16
MAGNAVOX 01, 02, 03	SONY 09
MITSUBISHI 13	TOSHIBA 08
PANASONIC 07, 17	ZENITH 06, 15
PHILIPS 01	
PHILIPS MAGNAVOX 01, 02, 03	

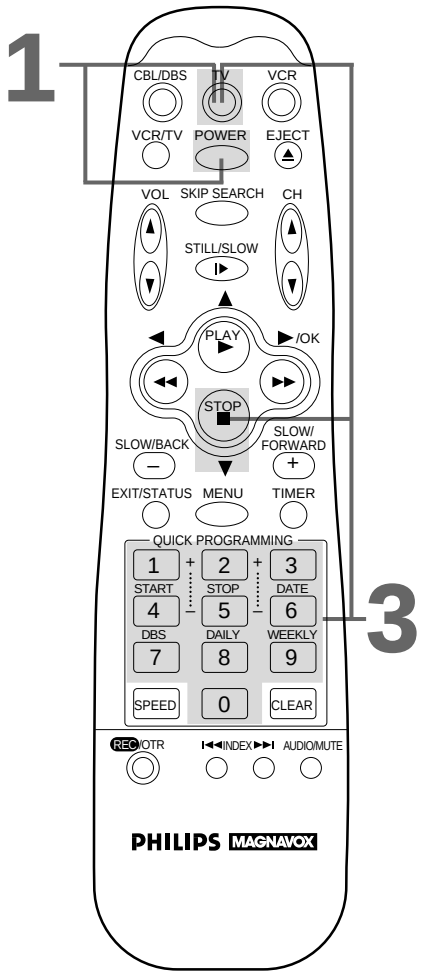
3

While you press and hold the TV button, use two Number buttons to enter the two-digit code for your TV. For example, if you have a Zenith TV, press Number buttons 1, 5. **Then, still holding the TV button, press the STOP ▼ button.** Your TV may turn on or off automatically.

4

Repeat step 1.
If the remote control works your TV, you're finished. If the remote control still doesn't work your TV, repeat steps 2 - 3, using a different code for your brand (if available).

2 Find the code for your TV.



Helpful Hints

- *If you had to program the remote control to operate your TV, whenever you replace the batteries in the remote control, you will have to program the remote control again.*
- *There is no guarantee that the remote control will work your TV.*
- *The remote control may only operate some features of your TV.*

Your VCR remote control may operate your Cable Box/DBS. Follow these steps to set the remote control code.

1

Point the remote control at your Cable Box/DBS. Press the CBL/DBS button, then press the POWER button. If your Cable Box/DBS turns on or off, try the CH(annel) ▲/▼ buttons. If the remote control operates the Cable Box/DBS, you're finished. If your Cable Box/DBS does not turn on or off, or if the CH(annel) ▲/▼ buttons don't work, go to step 2.

2

Find the brand of your Cable Box/DBS on the list below and remember the two-digit number beside it.

CABLE BOX/DBS CODES

ARCHER 01, 05, 17	REGAL 10, 18, 19, 23
CABLETENNA 01, 17	REGENCY 19
CABLEVIEW 15, 16, 17, 21, 25	REMBRANDT 01, 16, 17
CITIZEN . . .15, 16, 17, 21, 25	SAMSUNG 05, 16, 24
CURTIS 02, 08	SCIENTIFIC ATLANTA 02, 08
DIAMOND 01, 17	SIGMA 07, 20
EASTERN 19	SL MARX . .05, 16, 17, 24, 25
GC BRAND 15, 16, 17, 21, 25	SPRUCER 13, 14
GEMINI 15	STARGATE . . .05, 15, 16, 17,
GENERAL INSTRUMENTS	. . . . . 21, 24, 25
. . . . . .01, 04, 06, 11, 12, 15	TELEVIEW 05, 16, 24
HAMLIN 10, 18, 19, 23	TOCOM 01, 04, 16
JASCO 15	UNIKA 01, 17
JERROLD	UNIVERSAL 16, 17, 25
. . . . . .01, 04, 06, 11, 12, 15	VIDEOWAY 03, 09, 22
NOVAVISION 02, 08	ZENITH 03, 09, 22
OAK 07, 20	
PANASONIC 13, 14	MAGNAVOX DBS 42, 43
PULSAR . . .15, 16, 17, 21, 25	RCA DBS 40, 44
RCA 13, 14	SONY DBS 41

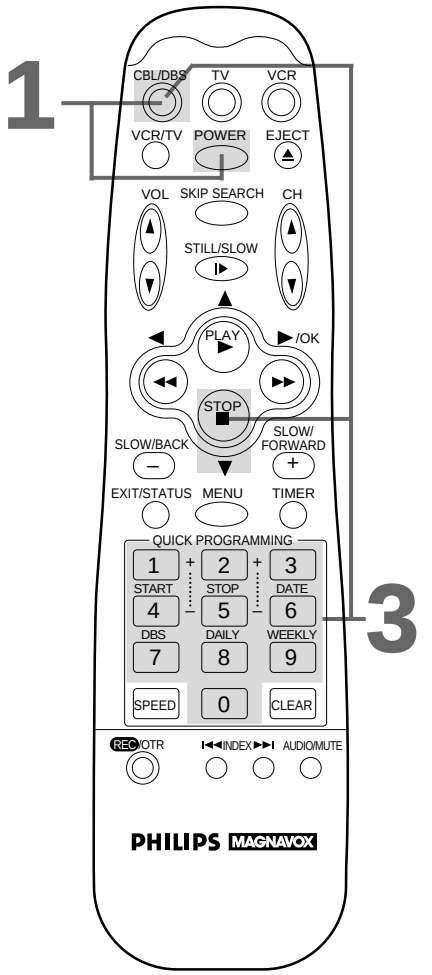
3

While you press and hold the CBL/DBS button, use two Number buttons to enter the two-digit code for your Cable Box/DBS. For example, if you have a Zenith Cable Box, press Number buttons 0, 3. **Then, still pressing the CBL/DBS button, press the STOP ▼ button.**

4

Repeat step 1. If the remote control still does not work your Cable Box/DBS, repeat steps 2 - 3 using a different code for your brand.

2 Find the code for your Cable Box/DBS.



Helpful Hints

- *If you had to program the remote control to operate your Cable Box/DBS, whenever you replace the batteries in the remote control, you must program the remote control again.*
- *The remote control may only operate some features of your Cable Box/DBS.*
- *Some Cable Boxes/DBSs can only be turned on at the Cable Box/DBS.*
- *There is no guarantee that the remote control will operate your Cable Box/DBS.*

Read and follow the steps below to play a tape.

1

Turn on the TV and set it to channel 3 or 4, whichever the CH3/CH4 switch on the back of the VCR is set to.

2

Insert a tape in the VCR. The power will come on. The VCR will place itself in VCR position automatically (the VCR light will appear on the display panel of the VCR). If the VCR light does not appear, press the VCR/TV button once. If the tape's record tab has been removed, playback will start automatically.

3

If playback does not start automatically, press the PLAY ▲ button. The ▷ light will appear on the VCR display panel.

4

Press the STOP ▼ button to stop playback.

5

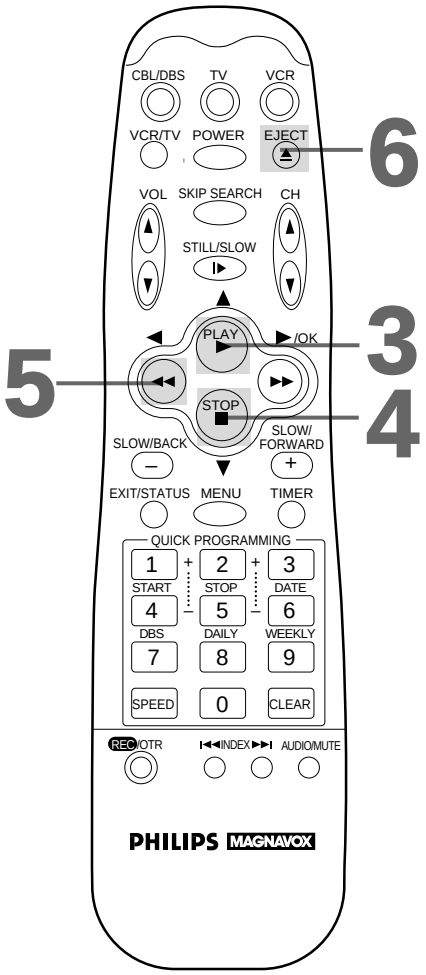
Press the Rewind ◄ button to rewind the tape.

6

When the tape has finished rewinding, press the EJECT button to remove the tape.

1 Turn on the TV.

2 Insert a tape.



Helpful Hint

- *Playback options and features are discussed on pages 42 - 49.*
- *This VCR is equipped with SQPB (S-VHS Quasi Playback) that lets you watch tapes recorded in the S-VHS format with regular VHS resolution.*
  - *SQPB does not deliver Super VHS resolution.*
  - *S-VHS recording is not possible with this VCR.*

Read and follow the steps below to record a television program.

1

Turn on the TV and set it to channel 3 or 4, whichever the CH3/CH4 switch on the back of the VCR is set to.

2

Insert a tape with its record tab intact (details are on page 5) in the VCR. The power will come on.

3

Press the VCR button.

4

If the VCR light appears on the display panel of the VCR, go to step 5. **If the VCR light does not appear, press the VCR/TV button once.**

5

Press the SPEED button until the desired tape speed appears on-screen. The VCR will only record in SP or SLP. *Details about tape speed are on pages 37 and 50.*

6

Use the CH(annel) ▲/▼ buttons or the Number buttons to select the channel to be recorded.

7

Press the REC(ord)/OTR button to start recording. The ○ light will appear on the VCR display panel.

8

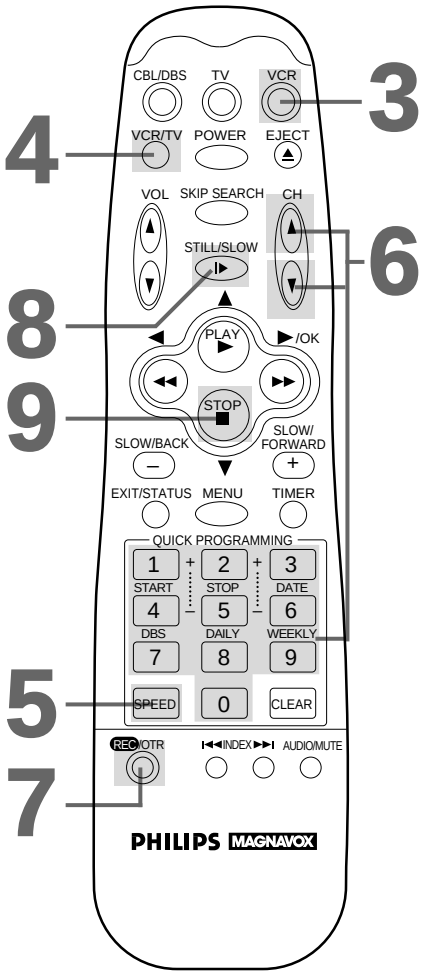
To pause the recording (for example, during commercials), press the STILL/SLOW button on the remote control. The ○□□ light will appear on the display panel.
To resume recording, press the STILL/SLOW button again. The ○ light will appear on the display panel.

9

Press the STOP ▼ button to stop recording. The ○ light will disappear from the display panel.

1 Turn on the TV.

2 Insert a tape.



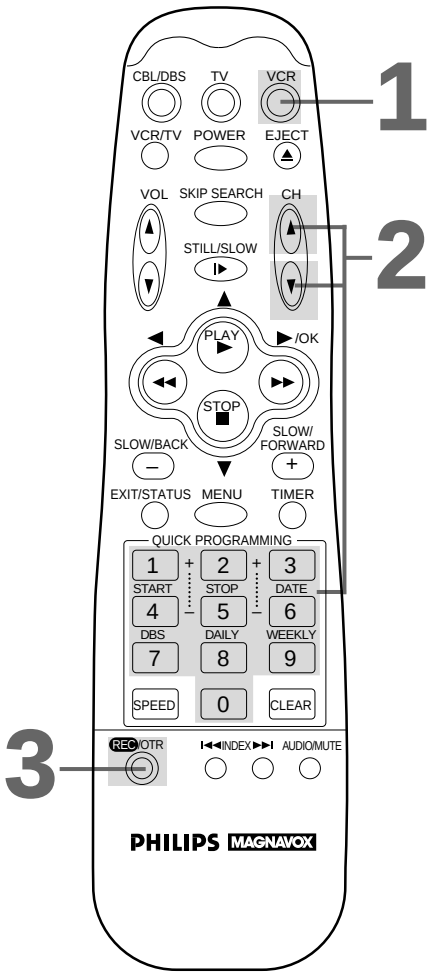
Helpful Hints

- *If the REC(ord)/OTR button is pressed while a tape without a record tab is in the VCR, PROTECTED CASSETTE CANNOT RECORD will appear on-screen briefly. The VCR will eject the tape.*
- *The VCR records in a preset volume.*
- *If the end of the tape is reached while recording, the VCR will stop recording, rewind the tape, then stop. Details are on page 49.*

30 One-Touch Recording

The One-Touch Recording (OTR) function allows you to start an immediate timed recording 30 minutes to nine hours long of the channel you are watching. Before you begin, make sure:

- Channels are set up. *Details are on pages 11 - 12.*
- The desired recording speed (SP or SLP) has been selected with the SPEED button. *Details are on pages 37 and 50.*
- There is a tape in the VCR. Make sure the tape's record tab is intact (see page 5) and the tape is long enough to record the program(s). If the end of the tape is reached during an OTR, recording will stop. The VCR will eject the tape and turn itself off.
- The VCR is in VCR position. (The VCR light will appear on the display panel of the VCR when the VCR is in VCR position. If the VCR light does not appear, press the VCR/TV button once.)



Starting an OTR

1

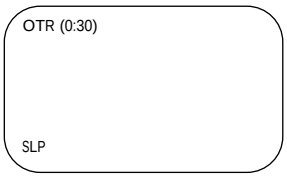
Press the VCR button.

2

Use the CH(annel) ▲/▼ buttons or the Number buttons to select the channel you want to record.

3

Press the REC(ord)/OTR button repeatedly until the desired recording length appears briefly on-screen and on the display panel. The ○ light will flash on the display panel.



Stopping an OTR

To stop an OTR before recording is finished, press the STOP ▼ button.

To cancel the OTR but continue recording, press the REC(ord)/OTR button repeatedly until REC appears in the upper left corner of the TV screen. (ON SCREEN MODE cannot be set to OFF. *Details are on page 25.*) The ○ light will remain on the display panel.

Helpful Hints

- *To check the time remaining for an OTR after the OTR is in progress, press the EXIT/STATUS button.*
- *To change the recording length while an OTR is in progress, press the REC(ord)/OTR button until the desired length appears on-screen.*
- *If the preset time for a timer recording comes up during an OTR, the OTR has priority.*

1

Press the VCR button.

2

Press the REC(ord)/OTR button to start a recording.
Details are on page 29.

3

Press the VCR/TV button to put the VCR in TV position. The VCR light will disappear from the display panel.

4

Use the TV remote control to select the channel you want to watch. Or, if the VCR remote control operates your TV, press the TV button, then use the CH(annel) ▲/▼ buttons to select the channel you want to watch. The channel selected with the TV controls will appear on-screen while the channel you previously selected to record is being recorded. (The ○ light will appear on the display panel.)

5

To return to the channel being recorded, use the TV remote control to select channel 03 or 04 (whichever channel the CH3/CH4 switch on the back of the VCR is set to). **Or, if the VCR remote control operates your TV, press the TV button, then use the CH(annel) ▲/▼ buttons to select channel 03 or 04.**

6

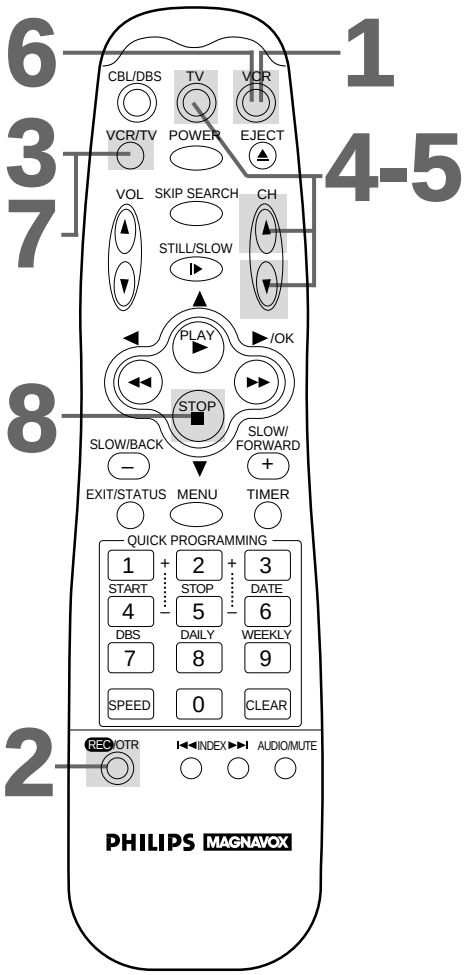
Press the VCR button.

7

Press the VCR/TV button to put the VCR in VCR position. (The VCR light will appear on the display panel.) The channel being recorded will appear on-screen.

8

To stop the recording, press the STOP ▼ button.



Helpful Hint

- *If you use a Cable Box/DBS, you may not be able to watch one channel while recording another. See pages 8 - 9 for details.*

32 Setting Up the VCR Plus+ Programming System

1

First, fill in the boxes on this page. It will only take a few minutes, and you must do it if you want the VCR Plus+ programming system to work properly.

Since the channel numbers of the stations you receive may not be the same as the station numbers, and since channel numbers differ from area to area, you must program the VCR with your local channel information. To fill in the boxes, you will need 1) a cable channel list, if applicable (you can request one from your cable company), and 2) a chart that lists VCR Plus+ channel numbers, which you can find in your TV guide or the TV listings of your local newspaper.

NOTE: If you are using a Cable Box/DBS, the Cable/TV channel must be 03 or 04 (the Cable Box/DBS output channel) for every VCR Plus+ channel.

Channels		
Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.

Channels		
Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.

2

Now, compare the channel numbers you have written into the VCR PLUS+ CH. and CABLE/TV CH. columns. You'll notice that some stations have VCR Plus+ and Cable/TV channel numbers that are the same, and other stations have channel numbers that do not match. You must tell the VCR Plus+ and Cable/TV channel numbers according to the following steps.

3

Press the VCR button, then press the MENU button.

4

Press the PLAY ▲ or STOP ▼ button to select INITIAL SET UP, then press the ►/OK button.

5

Press the PLAY ▲ or STOP ▼ button to select VCR PLUS+ CH., then press the ►/OK button.

```
SET VCR PLUS+ CH.
VCR PLUS+          CABLE/TV
    99                 ---
    01                 ---
    02   ----->       ---
    03                 ---
    04                 ---
SELECT ▲▼ OR ENTER VCR+
CH. NO. THEN PUSH ►/OK
TO END PUSH EXIT
```

6

While the VCR PLUS+ channel is flashing, press the PLAY ▲ or STOP ▼ button repeatedly or press the Number buttons to select a VCR PLUS+ channel number. The arrow will appear beside the VCR PLUS+ channel. **Press the ►/OK button.**

7

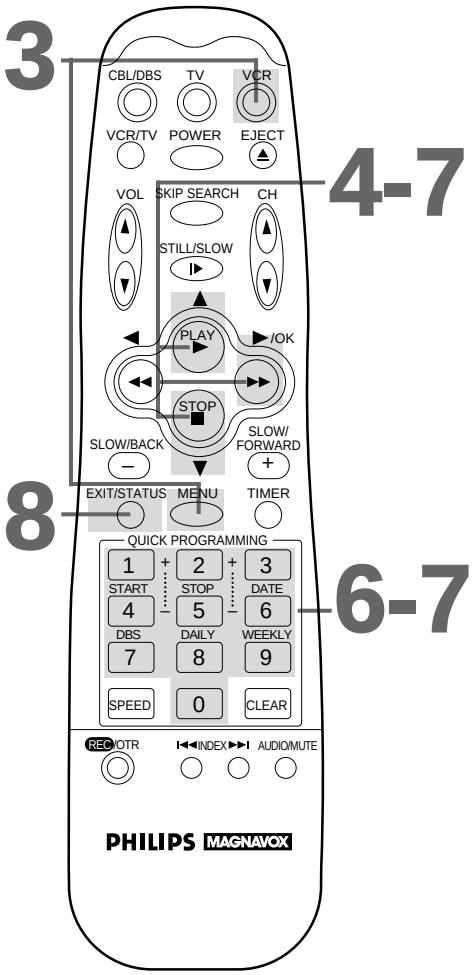
While the space for the CABLE/TV channel is flashing, press the PLAY ▲ or STOP ▼ button repeatedly or press the Number buttons to enter the CABLE/TV channel number. Press the ►/OK button.

Repeat steps 6 - 7 until you have entered all the channels on your list.

8

Press the EXIT/STATUS button.

2 Examine the lists on page 32.

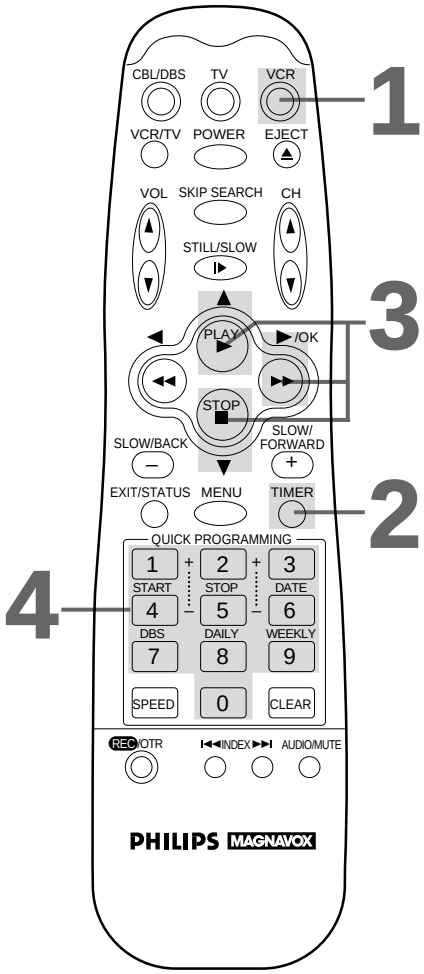


34 Timer Recording With the VCR Plus+ Programming System

Follow the steps below to program a timer recording using PlusCode programming numbers. Before you begin make sure:

- Channels are set up. *Details are on pages 11 - 12.*
- The clock is set. *Details are on pages 13 - 17.*
- There is a tape in the VCR. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).
- The VCR is in VCR position (the VCR light will appear on the display panel). If the VCR light does not appear, press the VCR/TV button once.
- You have programmed the VCR Plus+ and Cable/TV channel numbers. *Details are on pages 32 - 33.*

Complete each step within 60 seconds of completing the previous step. If you don't, you may start again at step 1.



1

Press the VCR button.

2

Press the TIMER button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ VCR PLUS+
  QUICK PROGRAMMING
  PROGRAM REVIEW


TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select VCR PLUS+, then press the ►/OK button.

```
VCR PLUS+ PROG. CODE

VCR PLUS+    ■


TO END PUSH EXIT
```

4

Use the Number buttons to enter the PlusCode programming number of the program you wish to record. (This number is different for every program, and it can be four to eight digits long.)

```
VCR PLUS+ PROG. CODE

VCR PLUS+    1234■


TO SET PUSH ►/OK
TO CORRECT PUSH CLEAR
TO END PUSH EXIT
```

Helpful Hint

- *If you enter an incorrect PlusCode programming number at step 4, ERROR-RE-ENTER CODE will flash on-screen. Enter the correct PlusCode programming number.*

5

Press the ►/OK button. If the VCR PLUS+ and CABLE/TV channel lists appear on-screen, the CABLE/TV channel has not been set for the VCR PLUS+ channel of the program you have set in step 4. Complete steps 6 - 7 on page 33.

6

- **If you want to record the program one time only, go to step 7.** You may also press the Number 8/DAILY or 9/WEEKLY button repeatedly to select a ONE TIME PROGRAM.
- **If you want to record the program daily, press the Number 8/DAILY button.** The VCR will record a program every day from Monday through Friday, starting at the same time and recording for the same length of time.
- **If you want to record the program every week, press the Number 9/WEEKLY button.** The VCR will record a program on the same day, at the same time, for the same length of time every week.

```
DAILY PROGRAM (MON-FRI)
  PROGRAM      1
  CHANNEL +/–  12
  START +/–    08:00  PM
  STOP +/–     10:00  PM
  REC SPEED    SP
  DATE +/–     07/31/98
               FRIDAY
SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

7

Press the SPEED button to select the tape speed. The selected tape speed, SP or SLP, will appear beside REC SPEED.

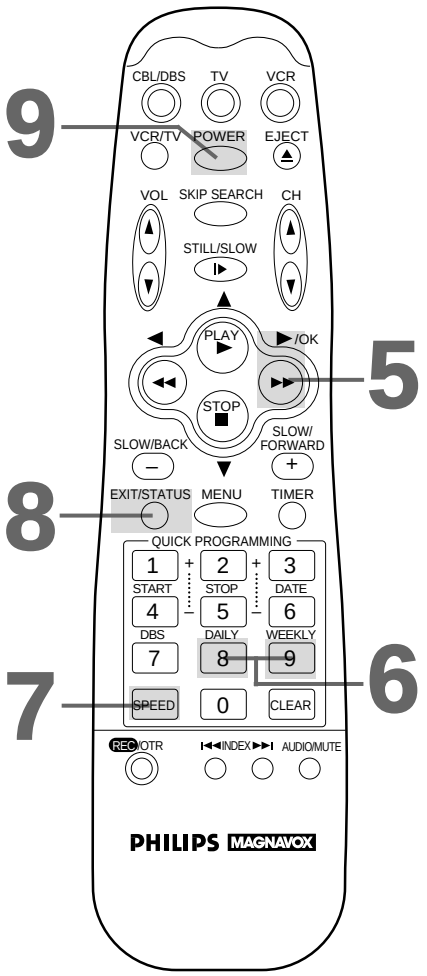
8

Press the EXIT/STATUS button. PROGRAM WAS COMPLETED/PLEASE TURN OFF VCR FOR TIMER RECORDING should appear on the screen. (If PROGRAM NOT COMPLETED appears, begin again from step 1.) After five seconds, the on-screen display will disappear.

9

Press the POWER button to turn off the VCR. The VCR must be turned off for a timer recording to take place. The ⏲ light will appear on the display panel. The ⏲ light and the Cassette-Inside light will flash when you turn off the VCR if there is not a tape in the VCR.

The VCR must be off for a timer recording to take place!
Make sure a tape is in the VCR.



Helpful Hints

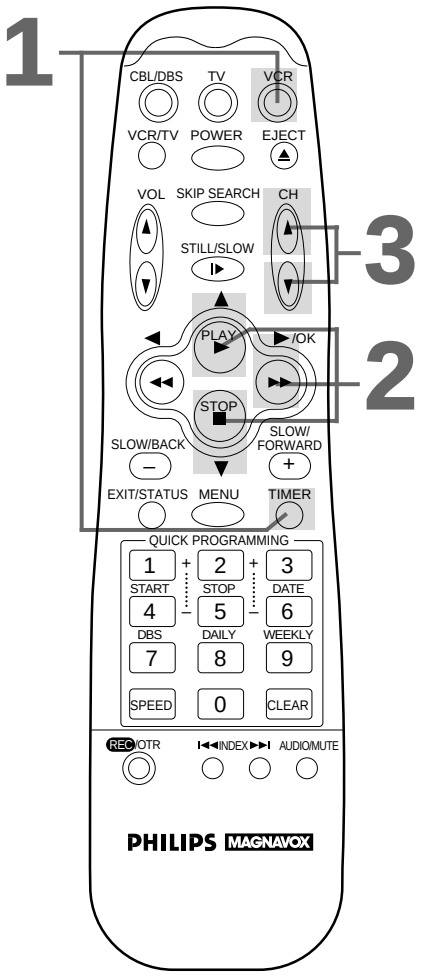
- *Do not select DAILY at step 6 if the VCR Plus+ recording you chose is on a Saturday or Sunday. The recording will not occur, even though the VCR may accept the way you programmed the recording.*
- *To exit the VCR Plus+ programming system at any step, press the EXIT/STATUS button.*
- *PROGRAM NOT COMPLETED/ CLASH may appear on-screen for five seconds at step 8 if the timer recording you programmed overlaps with another timer recording. To cancel the overlapping timer recording, follow the steps on page 39.*
- *If you want to check your timer recordings, follow the steps on page 39.*

36 Quick Programming

Follow the steps below to program your VCR to record TV programs while you're away from home. The VCR will turn itself on, record, and turn itself off automatically.

Before you begin make sure:

- Channels are programmed. *Details are on pages 11 - 12.*
- The clock is set. *Details are on pages 13 - 17.*
- There is a tape in the VCR. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).
- The VCR is in VCR position. The VCR light will appear on the display panel when the VCR is in VCR position. If the VCR light does not appear, press the VCR/TV button once.
- When you use a Cable Box/DBS, timer recordings are programmed differently. Read pages 8 - 9 before proceeding.
- Complete each step within 60 seconds of the previous step.



1

Press the VCR button, then press the TIMER button.

```
SELECT ▲▼        CHOOSE ►/OK

  ➡ VCR PLUS+
    QUICK PROGRAMMING
    PROGRAM REVIEW



TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select QUICK PROGRAMMING, then press the ►/OK button.

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  – – –
  START +/–    – – : – –  AM
  STOP +/–     – – : – –  AM
  REC SPEED    SLP
  DATE +/–     – – /– – /– –

SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

3

Press the CH(annel) ▲/▼ buttons to enter the channel you want to record.

- If you are using a standard antenna or cable to VCR to TV hookup (as shown on pages 6 - 7), enter the channel of the TV program you want to record.
- If you are using a Cable Box/DBS, enter the Cable Box/DBS output channel (03 or 04). Leave the Cable Box/DBS on for a timer recording.

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–    – – : – –  AM
  STOP +/–     – – : – –  AM
  REC SPEED    SLP
  DATE +/–     – – /– – /– –

SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

4

Press the Number 1/START + or Number 4/START– button to set the recording's start time. Every time you press a button, the start time changes in one-minute increments. If you press and hold a button, the start time changes in 30-minute increments.

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–     08 : 00   PM
  STOP +/–      – – : – –   AM
  REC SPEED     SLP
  DATE +/–      – – /– – /– –

SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

5

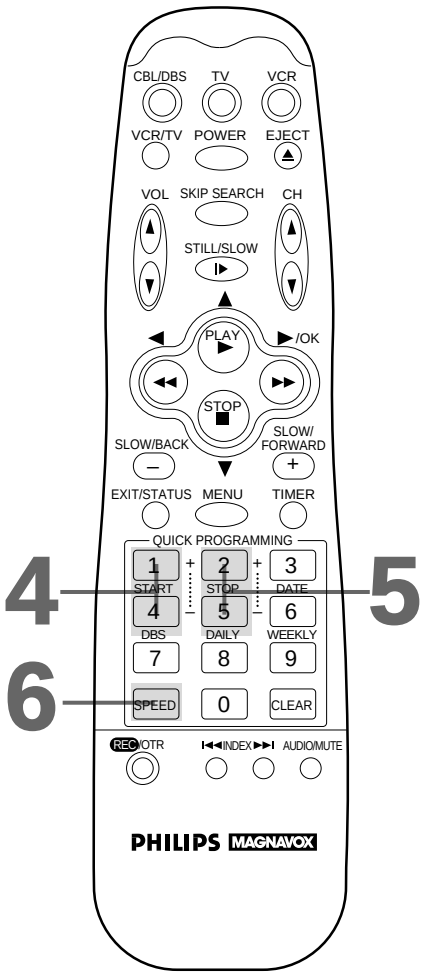
Press the Number 2/STOP+ or Number 5/STOP– button to set the recording's stop time. Every time you press a button, the stop time changes in one-minute increments. If you press and hold a button, the stop time changes in 30-minute increments.

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–     08 : 00   PM
  STOP +/–      10 : 00   PM
  REC SPEED     SLP
  DATE +/–      – – /– – /– –

SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

6

Press the SPEED button to select the tape speed (SP or SLP). Details about tape speed are given below.

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–     08 : 00   PM
  STOP +/–      10 : 00   PM
  REC SPEED     SLP
  DATE +/–      – – /– – /– –

SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```



Instructions continue on page 38.

Tape Speeds
This chart shows the recording/playback time for T160, T120, and T60 video cassettes. There are three playback speeds: SP, LP, and SLP. This VCR will play tapes recorded in LP, but LP will not appear on the display panel. This VCR will only record in SP and SLP.

Tape Speed	Maximum Record/Playback Time		
	T160	T120	T60
SP (Standard Play)	2 hrs. 40 mins.	2 hrs.	1 hr.
LP (Long Play)	5 hrs. 20 mins.	4 hrs.	2 hrs.
SLP (Super Long Play)	8 hrs.	6 hrs.	3 hrs.

7

Press the Number 3/DATE+ or Number 6/DATE– button to set the recording date. Every time you press a button, the date changes in one-day increments. If you press and hold a button, the date changes quickly. The day of the week will appear automatically. (You cannot program the VCR to record more than one year in advance.)

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–    08:00  PM
  STOP +/–     10:00  PM
  REC SPEED    SLP
  DATE +/–     07/31/98
               FRIDAY
SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

8

- **If you want to record the program one time only, go to step 9.** You may also press the Number 8/DAILY or 9/WEEKLY button repeatedly to select a ONE TIME PROGRAM.
- **If you want to record the program daily, press the Number 8/DAILY button.** The VCR will record a program every day from Monday through Friday, starting at the same time and recording for the same length of time.
- **If you want to record the program every week, press the Number 9/WEEKLY button.** The VCR will record a program on the same day at the same time and for the same length of time every week.

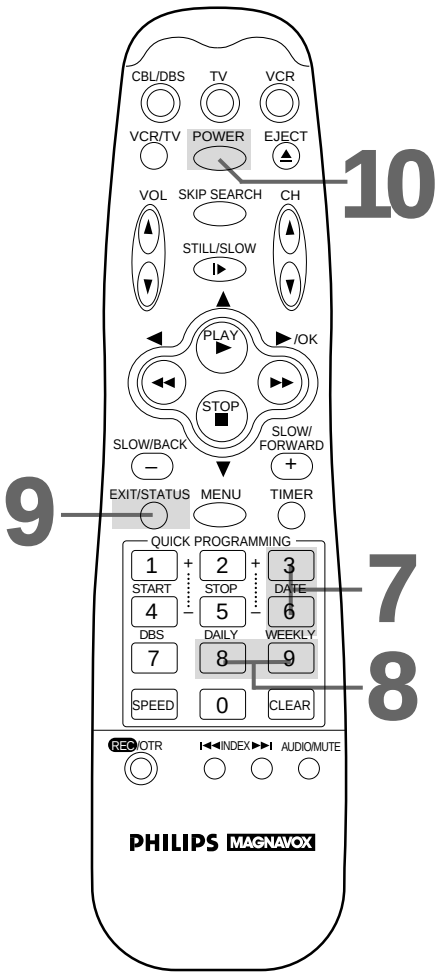
```
DAILY PROGRAM (MON-FRI)
  PROGRAM      1
  CHANNEL +/–  12
  START +/–    08:00  PM
  STOP +/–     10:00  PM
  REC SPEED    SLP
  DATE +/–     07/31/98
               FRIDAY
SET DAILY=8 OR WEEKLY=9
TO END PUSH EXIT
```

9

Press the EXIT/STATUS button. PROGRAM WAS COMPLETED/PLEASE TURN OFF VCR FOR TIMER RECORDING will appear on-screen. If PROGRAM NOT COMPLETED appears, try again from step 1.

10

Press the POWER button to turn off the VCR. The ◴ light will appear on the display panel. (The ◴ light and the Cassette-Inside light will flash when you turn off the VCR if there is not a tape in the VCR.) **The VCR must be turned off for a timer recording to take place.** If you forget to turn off the VCR, PLEASE TURN OFF VCR FOR TIMER RECORDING flashes on your TV screen two minutes before a timer recording starts. To remove the message, press the CLEAR button.



Helpful Hints

- *If the preset time for a timer recording comes up during a One-Touch Recording, the OTR has priority.*
- *If you leave the VCR on past the scheduled start time of a timer recording, you will not be asked again to turn off the VCR. When you turn off the VCR, the timer recording will not take place. The VCR may reprogram the recording for the same day and time in the next year.*
- *If the end of the tape is reached during a timer recording, recording will stop. The VCR will eject the tape, then turn itself off.*
- *If PROGRAM NOT COMPLETED/ CLASH appears at step 9, the timer recording you just programmed overlaps another timer recording. The timer recording you just programmed will not take place. The timer recording menu will reappear. To cancel a timer recording, see page 39.*

Checking, Editing, or Clearing Timer Recordings

1

Press the VCR button, then press the TIMER button.

```
SELECT ▲▼        CHOOSE ►/OK

➡ VCR PLUS+
  QUICK PROGRAMMING
  PROGRAM REVIEW


TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select PROGRAM REVIEW, then press the ►/OK button. The list of programmed timer recordings will appear.

```
PR  CH  START  STOP   DATE
1   12  08:00P  10:00  D07/31
2   36  10:00A  10:45  08/01
3   24  11:30P  01:00  08/10
4   45  03:00P  03:15  W10/15
5
6
7
8
NEXT= ►              END=EXIT
```

D indicates a Daily recording.

W indicates a Weekly recording.

3

Press the ►/OK button. Information for the first program will appear. (If no timer recordings are set, NO PROGRAM SET will appear briefly.)

```
ONE TIME PROGRAM
  PROGRAM      1
  CHANNEL +/–  12
  START +/–    08:00  PM
  STOP +/–     10:00  PM
  REC SPEED    SLP
  DATE +/–     07/31/98
               FRIDAY
TO ERASE PROGRAM = CLEAR
NEXT = ►  PREV = ◄  END = EXIT
```

4

Press the ►/OK button repeatedly to review all programmed timer recordings. Or, press the Rewind ◄ button to return to the previous screen.

5

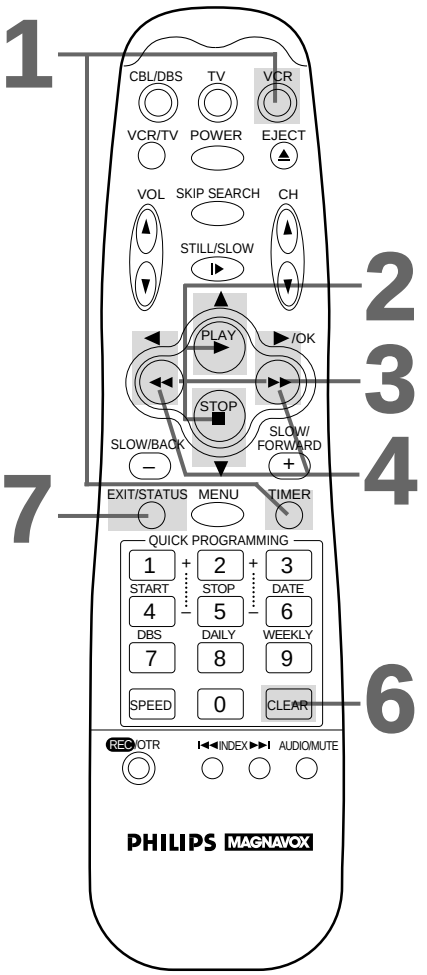
You may change any of the information, except the program number. Follow the steps on pages 36 - 38.

6

To cancel the timer recording, press the CLEAR button. You will either see the next timer recording or the menu will disappear.

7

Press the EXIT/STATUS button.



Helpful Hint

- *To stop a started timer recording, press the POWER button on the VCR.*
- *If you change the time or date and the new time conflicts with another timer recording, you will not see an ERROR message. Check to make sure none of the timer recordings conflict or overlap.*

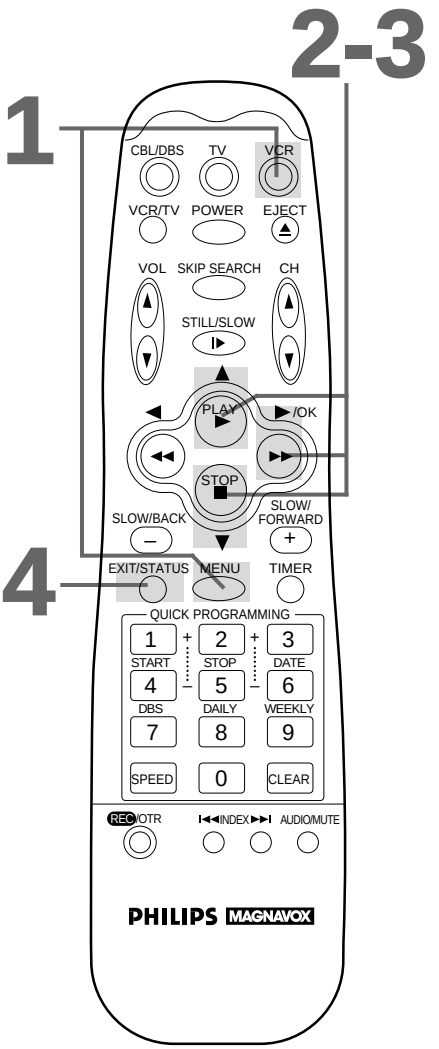
See pages 52 - 53 for more hints.

40 Timer Recording Speed Setting

If a program is recorded in SP and there is not enough tape to record the entire program, the VCR automatically switches to SLP to allow complete recording if TIMER REC SPEED is set to AUTO. This feature is especially useful when you record a program that is more than two hours long.
For example, to record a program of 140 minutes in length onto a 120-minute tape, the program is recorded in SP for about 110 minutes and in SLP for about 30 minutes.

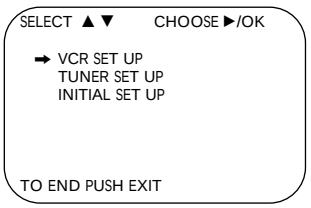
Approximately 110 minutes	Approximately 30 minutes
SP	**SLP**

Follow the steps below to set TIMER REC SPEED to AUTO.



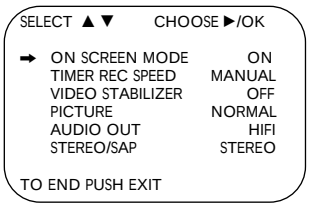
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ▶/OK button.



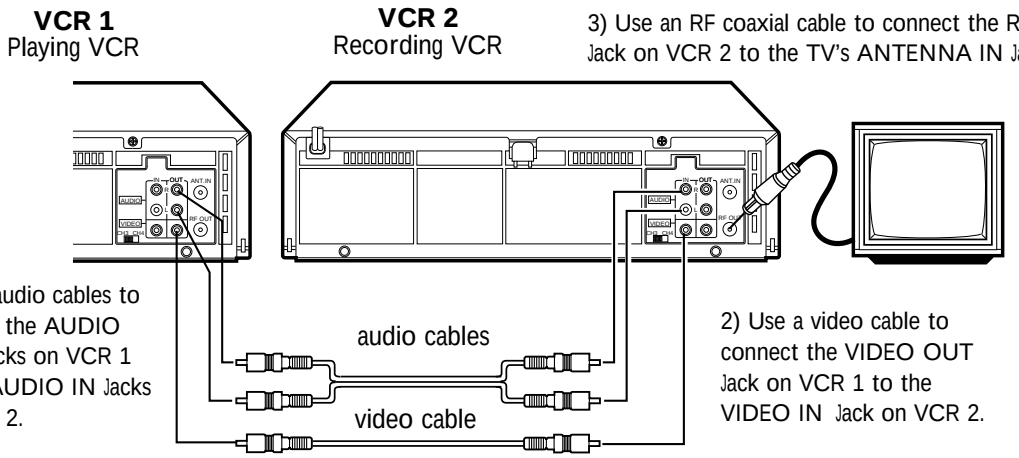
3

Press the PLAY ▲ or STOP ▼ button to select TIMER REC SPEED, then press the ▶/OK button so that AUTO appears beside TIMER REC SPEED. (To turn off this feature, press the ▶/OK button so that MANUAL appears beside TIMER REC SPEED.)

4

Press the EXIT/STATUS button.

The instructions on this page show you how to copy tapes. The illustration uses two VRZ264 VCRs just like yours. Different VCRs may operate differently. To duplicate a tape, make the connections shown, then follow steps 1 - 6. (You may use the AUDIO and VIDEO In jacks on the front of VCR 2 instead if you prefer.)


VCR 1
Playing VCR
VCR 2
Recording VCR
3) Use an RF coaxial cable to connect the RF OUT Jack on VCR 2 to the TV's ANTENNA IN Jack.
1) Use audio cables to connect the AUDIO OUT Jacks on VCR 1 to the AUDIO IN Jacks on VCR 2.
audio cables
video cable
2) Use a video cable to connect the VIDEO OUT Jack on VCR 1 to the VIDEO IN Jack on VCR 2.

1

VCR 1 will play your tape. **Insert a prerecorded tape in VCR 1.** If the tape does not have a record tab, playback begins. If this happens, press the STOP/EJECT button on VCR 1 once.

2

VCR 2 will record your tape. **Insert a blank tape in VCR 2. Make sure the VCR power is on and the VCR is in VCR position.** (The VCR light will appear on the display panel. If it does not, press the VCR/TV button once.)

3

Turn on the TV; set it to channel 3 or 4, whichever channel the CH3/CH4 switch on VCR 2 is set to.

4

Point the remote control at VCR 2. Press the VCR button, then press the Number buttons 0, 0. L-1 will appear on the display panel.

5

Point the remote control at VCR 2. Press the SPEED button to select SP or SLP.

6

Press the PLAY button on VCR 1 and the REC(ord)/OTR button on VCR 2 at the same time. The ○ light will appear on the VCR 2 display panel.

Helpful Hints

- *Unauthorized recording of copyrighted television programs, video tapes, or other materials may infringe on the rights of copyright owners and violate copyright laws.*
- *Audio and video cables are not included.*
- *The VCR in the figure above is the VRZ264. If you have the VRZ244, use a single-plug audio cable to connect the AUDIO OUT Jack on VCR 1 to the AUDIO IN Jack on VCR 2.*
- *To stop copying tapes, press the STOP/EJECT button on VCR 2, then press the STOP/EJECT button on VCR 1.*
- *If you connect the audio and video cables to the AUDIO/VIDEO In jacks on the front of VCR 2, you must select A/V IN FRONT at step 4. To do so, press Number buttons 0,0, then press the CH(annel) ▼ button so that A/V IN FRONT appears on-screen and L-F appears on the display panel.*

42 Index Search

When you make a recording, the VCR automatically places an index code at the beginning of the recording. Essentially, an index code is a type of “bookmark” for your tape. This feature is useful if you have several different programs recorded on a single tape.

Fast forward or rewind to the next or previous index code on the tape by following the steps below.

1

Press the VCR button.

2

Make sure the VCR is in VCR position. (The VCR light will appear on the display panel when the VCR is in VCR position.) **If the VCR light does not appear, press the VCR/TV button once.**

3

Insert a tape in the VCR.

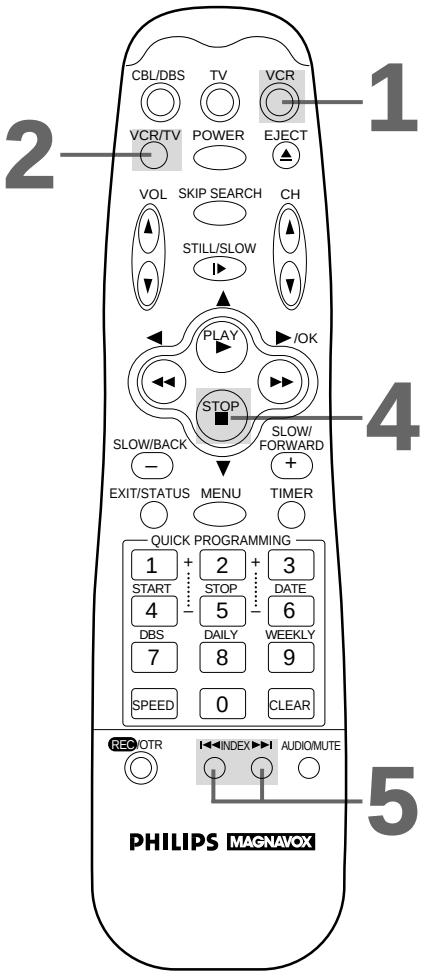
4

Press the STOP ▼ button to stop tape playback, if necessary.

5

Press the INDEX ►►I button to fast forward to the next index code on the tape. Or, press the INDEX I◄◄ button to rewind to the previous index code on the tape. Wait for the VCR to fast forward or rewind the tape. When the index code is reached, tape playback will begin automatically.
NOTE: You may press an INDEX button repeatedly to skip over multiple recordings. For example, if you want to fast forward past four recordings, press the INDEX ►►I button four times. INDEX 4 will appear in the bottom right corner of the screen. The index codes will count down on-screen as the search progresses. (ON SCREEN MODE cannot be set to OFF.)

3 Insert a tape.



Helpful Hints

- *The VCR does not place an index code at the point where a recording is paused, then resumed.*
- *INDEX may flash on-screen briefly when you begin a recording.*

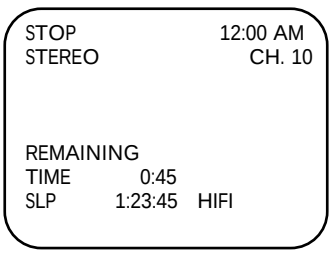
VRZ264 can receive and record programs broadcast in stereo or second audio. It can also play back tapes recorded in stereo or second audio.

These features are not available with the VRZ244.

- **Second Audio** You can program your VCR so that you can hear a program that is being broadcast in second audio or a tape that was recorded in second audio. (A second audio broadcast is usually a program in a second language.) Follow the steps on page 44 to receive or record this type of program.
- **Hi-Fi Stereo Playback** If a tape is recorded in stereo, you can program your VCR to play a tape in Hi-Fi (high fidelity) stereo. Follow the steps on page 45.
- **Hi-Fi Stereo Recording** If a TV program is broadcast in stereo, you can program your VCR to receive and record the program in Hi-Fi stereo. You must program the VCR and make the appropriate stereo hookups. Follow the steps on page 44. To playback this type of program, follow the steps on page 45.

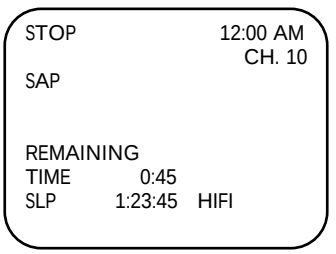
Receiving a Stereo Broadcast

When a TV program is being broadcast in stereo, STEREO will appear in the status display. You still have to program your VCR to receive and record the stereo broadcast. Follow the steps on page 44.



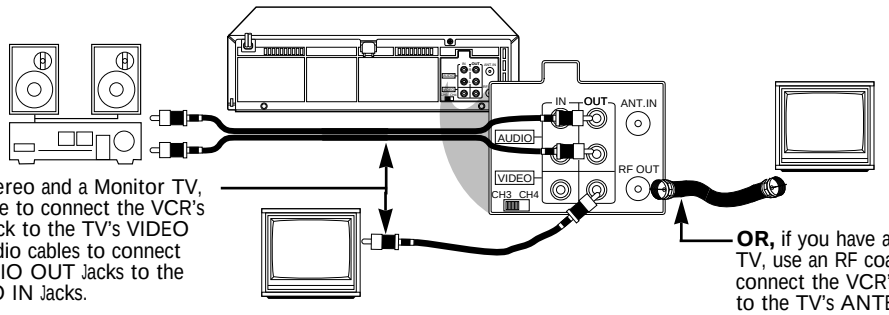
Receiving a Second Audio Program

If a program is being broadcast in second audio, SAP (Second Audio Program) will appear in the status display. You still have to program your VCR to receive and record the second audio program. Follow the steps on page 44.



44 Multi-Channel Television Sound System (VRZ264 only) (cont'd)

To receive and record programs broadcast in second audio, follow steps 1 - 6. To receive and record a program broadcast in stereo, make one of the connections shown, then follow steps 1 - 6.

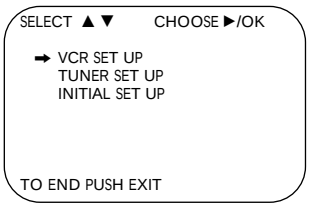


If you have a Stereo and a Monitor TV, use a video cable to connect the VCR's VIDEO OUT Jack to the TV's VIDEO IN Jack. Use audio cables to connect the VCR's AUDIO OUT Jacks to the Stereo's AUDIO IN Jacks.

OR, if you have a single-speaker TV, use an RF coaxial cable to connect the VCR's RF OUT Jack to the TV's ANTENNA IN Jack.

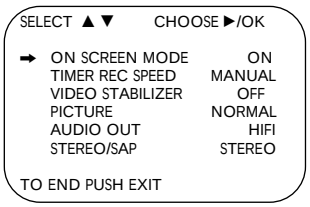
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ►/OK button.



3

Press the PLAY ▲ or STOP ▼ button to select STEREO/SAP, then press the ►/OK button to set it to SAP (for a Second Audio Program) or STEREO, whichever you prefer.

4

Press the EXIT/STATUS button.

5

Use the CH(annel) ▲/▼ buttons to select a channel to record.

6

Press the SPEED button to select the tape speed.

7

Press the REC(ord)/OTR button to start recording.

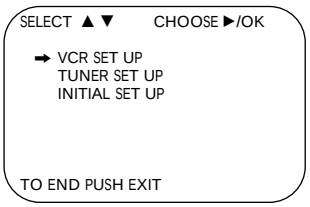
Helpful Hints

- *If you want to connect the VCR to a Stereo TV, follow these steps.*
  1) Connect the antenna or cable signal to the VCR's ANT(enna) IN Jack.
  2) Use stereo audio cables to connect the VCR's AUDIO OUT Jacks to the TV's AUDIO IN Jacks.
  3) Use a video cable to connect the VCR's VIDEO OUT Jack to the TV's VIDEO IN Jack.
- *Make sure the TV and the Stereo (if applicable) are in Line Input or Auxiliary mode. Please refer to your TV or Stereo owner's manual for details.*

If a tape is recorded in Hi-Fi stereo, follow the steps below to play the tape in Hi-Fi stereo.

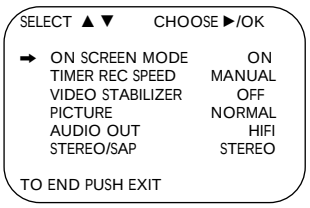
1

Press the VCR button, then press the MENU button.



2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ►/OK button.



3

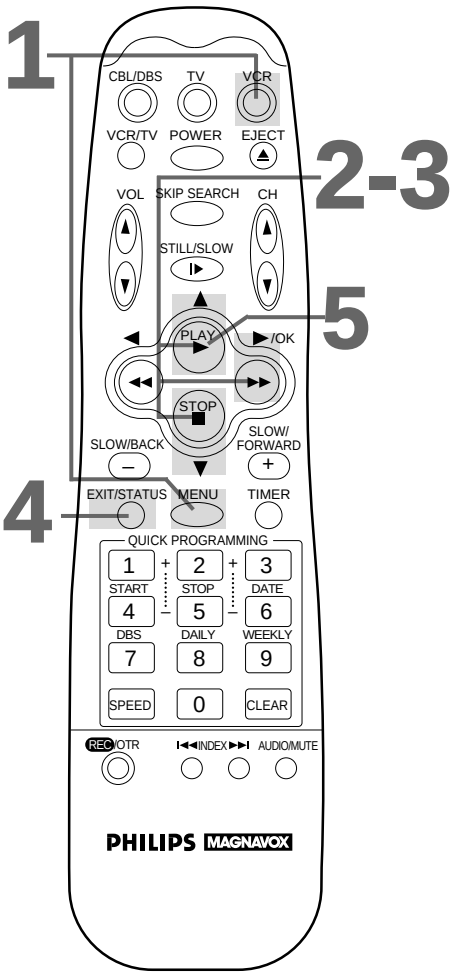
Press the PLAY ▲ or STOP ▼ button to select AUDIO OUT, then press the ►/OK button so that HIFI appears beside AUDIO OUT.

4

Press the EXIT/STATUS button.

5

Press the PLAY ▲ button to start tape playback.

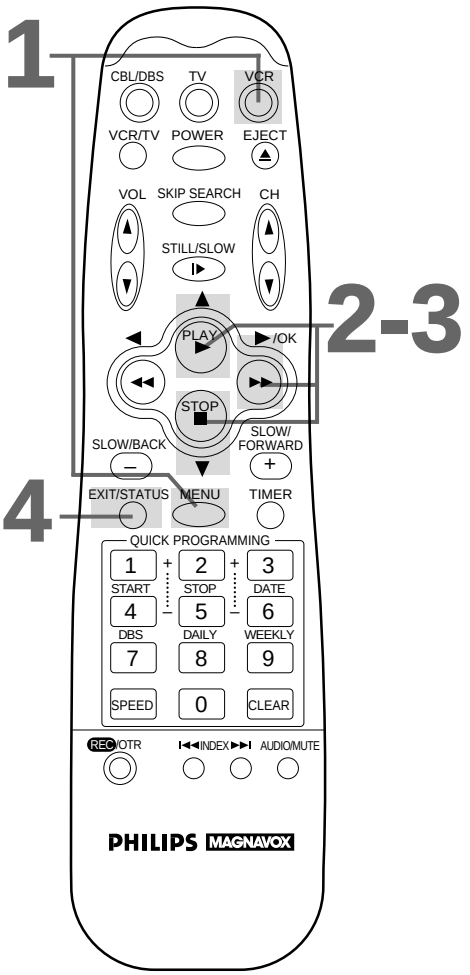


Helpful Hints

- *During playback, Hi-Fi stereo may temporarily revert to normal audio when you adjust tracking. This is normal.*
- *If Hi-Fi stereo continually reverts to normal audio during playback, you may want to press the ►/OK button to select MONO at step 3.*
- *Only tapes recorded in Hi-Fi stereo will play in Hi-Fi stereo. Tapes recorded in normal audio will play in normal audio.*
- *You may also select HIFI or MONO by pressing the VCR button, then repeatedly pressing the AUDIO/MUTE button on the remote control.*

46 Video Stabilizer

You can correct vertical vibration when playing back tapes recorded in SLP speed. When VIDEO STABILIZER is set to ON, vertical vibration will be corrected automatically. VIDEO STABILIZER is set to OFF when you receive the VCR.
Follow the steps below to set VIDEO STABILIZER to ON.



1

Press the VCR button, then press the MENU button.

```
SELECT ▲▼      CHOOSE ►/OK

➡ VCR SET UP
  TUNER SET UP
  INITIAL SET UP



TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ►/OK button.

```
SELECT ▲▼      CHOOSE ►/OK

➡ ON SCREEN MODE        ON
  TIMER REC SPEED       MANUAL
  VIDEO STABILIZER      OFF
  PICTURE               NORMAL
  AUDIO OUT             HIFI
  STEREO/SAP            STEREO

TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select VIDEO STABILIZER, then press the ►/OK button so that ON appears beside VIDEO STABILIZER.

```
SELECT ▲▼      CHOOSE ►/OK

  ON SCREEN MODE        ON
  TIMER REC SPEED       MANUAL
➡ VIDEO STABILIZER      ON
  PICTURE               NORMAL
  AUDIO OUT             HIFI
  STEREO/SAP            STEREO

TO END PUSH EXIT
```

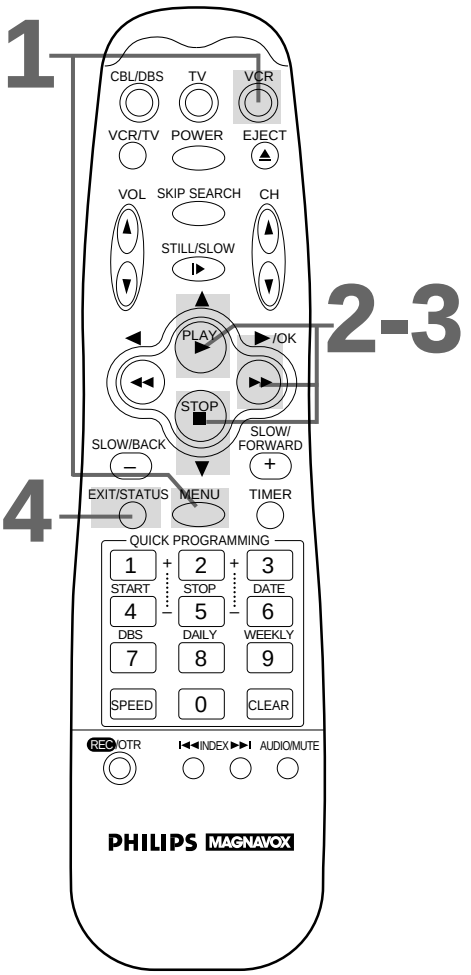
4

Press the EXIT/STATUS button.

Helpful Hints

- *The on-screen status display may jitter when VIDEO STABILIZER is set to ON.*
- *Regardless of the setting, this function has no effect on tapes recorded in SP speed, during recording, and during special effects playback.*
- *To set VIDEO STABILIZER to OFF, follow steps 1 - 2 above. At step 3, press the ►/OK button so that OFF appears beside VIDEO STABILIZER. Press the EXIT/STATUS button.*

You can make the picture sharper or enhance a picture when playing back tapes recorded in SLP speed. PICTURE is set to NORMAL when you receive the VCR. Follow the steps below to set PICTURE to INCREDIBLE or ENHANCER.



1

Press the VCR button, then press the MENU button.

```
SELECT ▲▼      CHOOSE ►/OK

➡ VCR SET UP
  TUNER SET UP
  INITIAL SET UP



TO END PUSH EXIT
```

2

Press the PLAY ▲ or STOP ▼ button to select VCR SET UP, then press the ►/OK button.

```
SELECT ▲▼      CHOOSE ►/OK

➡ ON SCREEN MODE          ON
  TIMER REC SPEED      MANUAL
  VIDEO STABILIZER        OFF
  PICTURE              NORMAL
  AUDIO OUT              HIFI
  STEREO/SAP           STEREO

TO END PUSH EXIT
```

3

Press the PLAY ▲ or STOP ▼ button to select PICTURE, then press the ►/OK button repeatedly to select ENHANCER for an enhanced picture or INCREDIBLE for a sharper picture.

```
SELECT ▲▼      CHOOSE ►/OK

  ON SCREEN MODE          ON
  TIMER REC SPEED      MANUAL
  VIDEO STABILIZER        OFF
➡ PICTURE           INCREDIBLE
  AUDIO OUT              HIFI
  STEREO/SAP           STEREO

TO END PUSH EXIT
```

4

Press the EXIT/STATUS button.

Forward and Reverse Searching

1

During tape playback, press and release the ►/OK button or the Rewind ◄ button. A fast forward or reverse picture search will begin.

2

To return to playback, press the PLAY ▲ button.

Viewing a Still Picture

1

During tape playback, press the STILL/SLOW button. A still picture will appear on-screen.

2

To advance the still picture frame by frame, press the STILL/SLOW button repeatedly.

3

To return to playback, press the PLAY ▲ button.

Viewing a Slow Motion Picture

1

During tape playback, press and hold the STILL/SLOW button for three seconds. The tape will play in slow motion.

2

Press the SLOW/BACK (–) button or SLOW/FORWARD (+) button to adjust the speed of slow motion playback. If you press and hold the SLOW/BACK button during Slow Motion playback, the tape will play in reverse in slow motion.

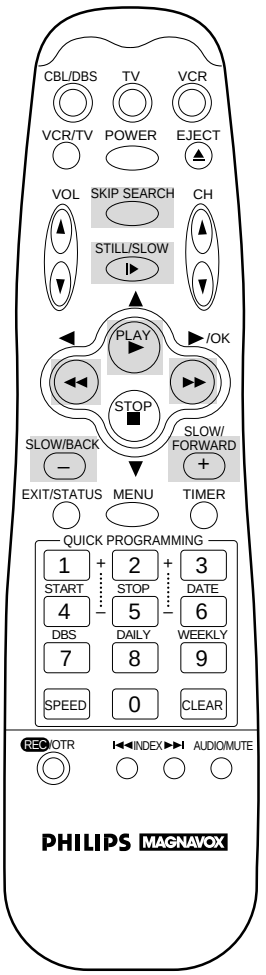
3

To return to playback, press the PLAY ▲ button.

Repeat Playback

1

Press and hold the PLAY ► button until the ▷ light flashes on the display panel. Now, when a tape has finished playing, the VCR will rewind it and start playback again. The VCR will play the tape 50 times. The ▷ light on the display panel will flash during tape playback and while rewinding. TV programming will appear while the tape is rewinding.
Repeat Playback will be cancelled if you press the STOP ▼, STILL/SLOW, ►/OK or Rewind ◄ buttons during playback.



Helpful Hints

- *During Search, Slow, and Still modes, there will be no sound.*
- *Slow and Still modes automatically switch to Stop mode after five minutes to protect the VCR and the tape from damage.*
- *During Forward or Reverse Searching, noise bars will appear on-screen.*
- *You may only view a tape in Slow Motion if the tape is recorded in SP or SLP speed.*

Automatic Playback
When you put a tape in the VCR, the power will come on automatically. If the tape's record tab is missing, playback will begin.

Automatic Rewind
When a tape is played, fast forwarded, or recorded to its end, the VCR will rewind the tape to the beginning, then stop.

Memory Rewind, Power Off
When the POWER button is pressed while the VCR is rewinding a tape, REWIND→POWER OFF will appear on-screen. When the tape has finished rewinding, the VCR will stop, then turn itself off.

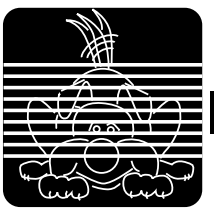
Tape Eject
A tape can be ejected with the VCR power on or off (but the VCR must be plugged in).
If a timer recording is programmed, the ◴ and Cassette-Inside lights will flash on the VCR's display panel when you eject a tape with the VCR power turned off.

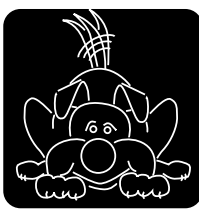
Counter Reset
The real-time counter will automatically be reset to 0:00:00 as you insert a cassette.
To reset the real-time counter to 0:00:00 at anytime, press the CLEAR button on the remote control.

Automatic Tracking Adjustment
The VCR continually adjusts tracking to give you the best possible picture quality. With some recordings, however, you may get a better picture by adjusting the tracking manually (see below).

Manual Tracking Adjustment
- *Press the CHANNEL ▲/▼ buttons **on the VCR** to remove jitter in a still picture.*
- *You can return to Automatic Tracking Adjustment by pressing the CHANNEL ▲/▼ buttons **on the VCR at the same time.***
- *The CHANNEL ▲/▼ buttons **on the VCR** also adjust tracking during normal tape playback.*
- *The VCR returns to Automatic Tracking Adjustment whenever a tape is inserted.*

Before Tracking Adjustment





After Tracking Adjustment

50 Glossary

AUDIO IN/OUT Jacks: jacks located on the front and back of the VCR which are used to record audio from another source (IN) or to send audio to another source (OUT).
The VRZ244 has single AUDIO IN/OUT Jacks on the front and back of the VCR. The VRZ264 has Right and Left AUDIO IN/OUT Jacks on the front and back of the VCR.

Automatic Channel Programming: process in which the VCR scans all available channels and places the ones you receive in its memory. Then, when you press the CH(annel) ▲/▼ buttons, you only scan through channels you receive.

Bands: settings that allow you to tune channels.
- **Antenna –** VHF (very high frequency; channels 2 - 13) and UHF (ultra high frequency; channels 14 - 69).
- **Cable –** standard channels can be received without a Cable Box.

Cable Box/DBS Output Channel: channel 03 or 04.

DBS: Direct Broadcast System.

Dubbing: copying a tape using a second VCR.

Frame: a single still picture.

HQ: high quality; a feature in the VCR circuitry which provides enhanced picture detail.

OTR: one-touch recording; programming a timer recording that starts immediately and records for 30 minutes to nine hours, whichever you specify.

Remote Control: the small electronic unit that came with your VCR; allows you to operate your VCR from a distance. The remote control may also operate some features of your TV, Cable Box, or DBS.

RF coaxial cable: the cable supplied with your VCR. Use it to connect your VCR to your TV (or Cable Box/DBS, if applicable). The supplied cable is a snap-on type. However, you may also use a screw-on type if you prefer.

Special Effects: forward and reverse searching; viewing a still picture; or viewing a slow motion picture.

Tape Speeds: how fast the tape travels during a recording or playback.
- **LP (long play)** – average tape speed (playback time for a T120 tape is approximately four hours); available for playback only. Although the VCR will play tapes recorded in LP, LP will not appear on the display panel or in the on-screen status display.
- **SLP (super long play)** – slowest tape speed (recording/playback time for a T120 tape is approximately six hours).
- **SP (standard play)** – fastest tape speed (recording/playback time for a T120 tape is approximately two hours); best picture quality.

VCR: video cassette recorder.

VIDEO IN/OUT Jacks: jacks located on the front and back of the VCR which are used to record video from another source (IN) or to send video to another source (OUT).

Video Heads
Four heads (VRZ244)
Four heads with Hi-Fi stereo (VRZ264)

Video Signal
EIA standards; NTSC color

Antenna
VHF/UHF – 75 ohm external antenna terminal

VHF Output Signal
Channel 3 or 4 (switchable)
75 ohms unbalanced

Power Requirement
120V AC; 60 Hz

Power Consumption
20 W (For VRZ244)
22 W (For VRZ264)

Operating Temperature
41°F (5°C) to 104°F (40°C)

Relative Humidity
10% to 80%

Weight
7.3 lbs. (3.3 kg.)

Dimensions
14-3/16" (W) x 3-3/4" (H) x 10-3/4" (D)
(360 mm x 94 mm x 274 mm)

Tuner Broadcast Channels
VHF: 2-13
UHF: 14-69

Cable TV Channels
VHF: 2 - 13
Midband: A – 1
Superband: J – W
Hyperband: A-5 – A-1
Special Channel: 5A
Ultraband: 37 – 94, 100 – 125

NOTE: Designs and specifications are subject to change without notice.

52 Helpful Hints

If you are having problems with your VCR, check the following list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.
If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

The VCR has no power.
- Make sure the power plug is completely connected to an AC (alternating current) outlet.
- Make sure the power is turned on.

A power failure occurred.
- Select a language and set up channels, if prompted to do so. *Details are on pages 11 - 12 and 19.* Reset the clock. *Details are on pages 13 - 17.* You may also need to reprogram your timer recordings. *Details are on pages 34 - 39.*

The VCR cannot be controlled with the remote control.
- Aim the remote control directly at the VCR's remote sensor. *Details are on pages 5 and 22.*
- Remove all obstacles between the remote control and the VCR.
- Inspect and/or replace the batteries in the remote control. *Details are on page 5.*
- Press the VCR button, then try the other buttons.

The VCR does not respond normally to the remote control. (For example, the VCR may change channels multiple times when you press the CH(annel) ▲ button once.)
- Install new batteries (preferably alkaline) in the remote control.

The VCR will not perform a timer recording.
- Make sure the recording start and stop times are set correctly. *Details are on pages 34 - 39.*
- Make sure there is a tape in the VCR.
- Make sure the tape has a record tab. *Details are on page 5.*
- Make sure the VCR power is off.
- Make sure the clock is set. *Details are on pages 13 - 17.*
- The VCR may not perform or continue a timer recording if a power interruption of more than 10 minutes occurs, even if the power comes back on. If timer recordings are lost, - - : - - should appear on the display panel. But, even if you do not see this indication and the VCR operates normally, check programmed timer recordings.
- When you turn on the VCR after a power failure, this on-screen message may appear: POWER FAILURE OCCURRED/TIMER MEMORY CLEARED (IF PROGRAMMED)/PLEASE SET PROGRAMS TO BE RECORDED/TO END PUSH EXIT. First, reset the clock. *Details are on pages 13 - 17.* Then, set up channels. *Details are on pages 11 - 12.* Finally, program the timer recordings again. *Details are on pages 34 - 39.*
- Finish programming a timer recording at least five minutes before the recording is scheduled to begin.
- If two timer recordings overlap, CLASH will appear on-screen. The earlier program has priority; the later program will not be recorded.
- If the VCR power is turned off for a timer recording and there isn't a tape in the VCR, the ◴ and Cassette-Inside lights will blink on the display panel.
- If the record tab on a tape is missing and you turn off the VCR to set a timer recording, the VCR will eject the tape. The ◴ and Cassette-Inside lights will blink on the display panel.
- Noon is 12 p.m.; midnight is 12 a.m.
- Enter the Cable Box/DBS output channel (03 or 04) at step 3 on page 36, then select the channel to be recorded at the Cable Box/DBS. Leave the Cable Box/DBS on for the timer recording.

Tape can't be inserted.
- Insert the tape window side up, with the record tab facing you.
- Make sure a tape isn't already in the VCR by pressing the STOP/EJECT button on the VCR or the EJECT button on the remote control.
- Gently push the center of the tape as you put it in the VCR. Never force a tape into the VCR.

Tape can't be removed.
- Make sure the power plug is completely connected to an AC (alternating current) outlet.

The motor (cylinder) rotates even when the VCR is in Stop mode.
- To enable the quick play mechanism, the cylinder will rotate for about five minutes. This is normal. The quick play mechanism enables the tape mechanism to switch from Stop mode to Play mode in one second.

There is no playback picture, or the playback picture is noisy or contains streaks.
- Make sure the TV is on the same channel as the VCR's CH3/CH4 switch. *Details are on pages 6 - 9.*
- Make sure the VCR is in VCR position. *Details are on pages 21 and 22.*
- Make sure channel 3 or 4 is properly adjusted at the TV.
- Adjust the tracking. *Details are on page 49.*

The Number buttons won't work for channels above 69; channels above 13 cannot be received.
- Select CABLE at the TUNER SET UP menu, then let the VCR set up the channels. *Details are on pages 11 - 12.*

A TV program cannot be recorded.
- Check the connections between the VCR, TV, antenna/cable, and Cable Box/DBS (if applicable). *Details are on pages 6 - 9.*
- Make sure channels are programmed correctly. *Details are on pages 11 - 12.*
- Make sure the tape has a record tab. *Details are on page 5.*

TV programs cannot be watched normally.
- Put the VCR in TV position. *Details are on pages 21 and 22.*
- Check the connections between the VCR, TV, antenna/cable, and Cable Box/DBS (if applicable). *Details are on pages 6 - 9.*

Line Input mode is selected.
- If you accidentally enter Line Input mode (L-1 or L-F will appear on the display panel), use the CH(annel) ▲/▼ buttons or the Number buttons to select another channel.

Multi-Channel Television Sound System (VRZ264 only)
- You can only receive and record in stereo or second audio programs that are broadcast in stereo or second audio. You can only play in stereo or second audio tapes that were recorded in stereo or second audio. *Details are on pages 43 - 45.*
- If you select second audio when second audio is not available, the VCR will record normal audio.
- When you program your VCR to record in stereo, broadcasts are recorded in Hi-Fi stereo.
- You will only get stereo sound if you use audio cables to connect the AUDIO OUT Jacks on the VCR to the AUDIO IN Jacks on your TV. The TV must be in Line Input mode. See your TV owner's manual for details.
- When you connect the AUDIO OUT Jacks on your VCR to the AUDIO IN Jacks on your TV, the stereo light on the TV might not glow. This is normal. If the VCR indicates you are receiving a stereo broadcast, you are. (STEREO will appear in the status display.)

The VCR ejects the tape when the REC(ord)/OTR button is pressed or when the VCR power is turned off to set a timer recording.
- Make sure the tape has a record tab. *Details are on page 5.*

54 Limited Warranty

VIDEO CASSETTE RECORDER

90 Days Free Labor/One Year Parts Exchange. This product must be carried in for repair.

WHO IS COVERED?
You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?
Warranty coverage begins the day you buy your product. *For 90 days thereafter,* all parts will be repaired or replaced, and labor is free. *From 90 days to one year from the day of purchase,* all parts will be repaired or replaced, but you pay for all labor charges. *After one year from the day of purchase,* you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?
Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- damage caused by the use of non-VHS tapes or tapes that have not been tested and labelled for use in two, four, six, and eight hour VHS recorders.
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

WHERE IS SERVICE AVAILABLE?
Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...
Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...
Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...
Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. Because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...
Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental, or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...
Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

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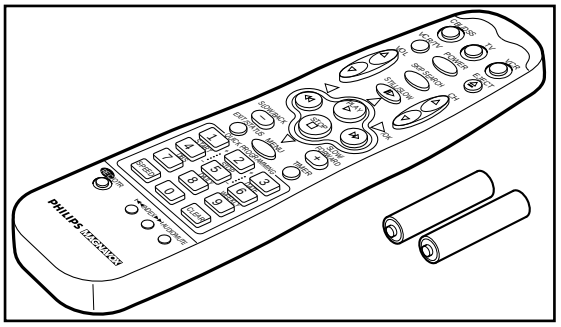
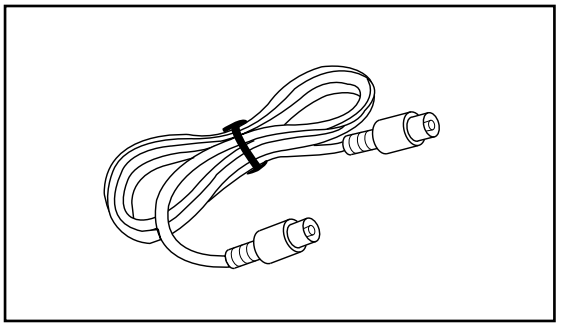
SUPPLIED ACCESSORIES

Check to be sure the items on this page are packed with your VCR. These accessories are provided to help you use or set up your VCR.



Remote Control 4835 218 37225
Two "AA" Batteries 4835 138 17012



RF Coaxial Cable 4835 321 27302

If any of these items are not included, or if you need to replace an item, contact Philips Service Solutions Group at the address below.

Philips Service Solutions Group
P.O. Box 967
Greeneville, TN 37744-0967

Or, call 1-800-851-8885.